

## Navigation Problems-Chart Plot

ID #	Question	Choice A	Choice B	Choice C	Choice D
1	Your GPS position is LAT 36°59.0'N, LONG 75°48.6'W. What is the course per standard magnetic compass to a position one mile south of Cape Charles Buoy "14" (which is positioned at LAT 37°07.4'N, LONG 75°41.0'W)?	<b>045°psc</b>	049°psc	053°psc	057°psc
2	Your GPS position is LAT 36°59.0'N, LONG 75°48.6'W. What is the course per standard magnetic compass to a position one mile east of Cape Charles Lighted Bell Buoy "14" (LAT 37°07.4'N, LONG 75°41.0'W)?	040°psc	<b>045°psc</b>	049°psc	053°psc
3	Your GPS position is LAT 37°07.5'N, LONG 75°39.1'W. What is the course per standard magnetic compass (psc) to a position 0.3 mile due north of North Chesapeake Entrance Buoy NCA (LL #375)?	222°psc	228°psc	231°psc	<b>234°psc</b>
4	Your GPS position is LAT 37°01.5'N, LONG 75°31.7'W. What is the course per standard magnetic compass to Chesapeake Light?	<b>243°</b>	240°	237°	231°
5	Your GPS position is LAT 36°55.2'N, LONG 75°33.1'W. What is the course per standard magnetic compass to Rudee Inlet (LAT 36°49.8'N, LONG 75°58.0'W)?	246.0°psc	254.5°psc	261.0°psc	<b>265.5°psc</b>
6	What is the course psc from Chesapeake Light to North Chesapeake Entrance Buoy NCA?	313°psc	317°psc	<b>321°psc</b>	325°psc
7	What is the course per standard magnetic compass from Chesapeake Light to North Chesapeake Entrance Lighted Whistle Buoy NCA?	316°psc	<b>321°psc</b>	323°psc	326°psc
8	What is the first course per standard magnetic compass (psc) in the outbound southeasterly traffic lane of the Chesapeake Bay entrance traffic separation scheme?	133°psc	138°psc	143°psc	<b>148°psc</b>
9	What is the base course per standard magnetic compass while southbound in the middle leg of York Spit Channel?	161.0°psc	165.5°psc	180.0°psc	<b>184.0°psc</b>
10	What is the base course (psc) in the inbound northeasterly traffic lane of the Chesapeake Bay entrance traffic separation scheme?	<b>261°psc</b>	258°psc	250°psc	244°psc
11					
12	Your GPS position is LAT 41°10.0'N, LONG 72°52.5'W. What is the course per standard magnetic compass to a position one mile due south of Falkner Island Light?	065°psc	081°psc	<b>093°psc</b>	097°psc

13	Your present position is LAT 41°05.5'N, LONG 72°38.0'W. Assuming that there are no set and drift, what course must you steer per standard magnetic compass (psc) to arrive at a position 0.5 mile due south of New Haven Lighted Whistle Buoy NH?	315.5°psc	<b>310.5°psc</b>	290.5°psc	284.5°psc
14	Your present position is LAT 41°05.5'N, LONG 72°38.0'W. Assuming that there is no set and drift, what course must you steer per standard magnetic compass (psc) to arrive at a position midway between New Haven Harbor Channel buoys #1 and #2?	137°psc	309°psc	<b>315°psc</b>	319°psc
15	Your present position is LAT 41°05.5'N, LONG 72°38.0'W. Assuming there is no set and drift, what course must you steer per standard magnetic compass (psc) to arrive at a position 3 miles due north of Horton Point Light?	077°psc	081°psc	<b>085°psc</b>	088°psc
16	Your present position is LAT 41°05.5'N, LONG 72°38.0'W. Assuming that there is no set and drift, what course must you steer per standard magnetic compass (psc) to arrive at a position 5 miles due south of Saybrook Breakwater Light?	089°psc	<b>080°psc</b>	077°psc	066°psc
17	Your present position is LAT 41°05.5'N, LONG 72°38.0'W. Assuming that there is no set and drift, what course must you steer per standard magnetic compass (psc) to arrive at a position 2 miles due west of Twenty-Eight Foot Shoal Lighted Buoy (LAT 41°09.3'N, LONG 72°30.5'W)?	<b>055°psc</b>	059°psc	064°psc	069°psc
18	Your 2230 position is LAT 41°07.4'N, LONG 72°44.0'W. Assuming that there are no set and drift, what course must you steer per standard magnetic compass (psc) to leave Twenty-Eight Foot Shoal Lighted Buoy (LAT 41°09.3'N, LONG 72°30.4'W) 1 mile abeam to port?	084°psc	091°psc	094°psc	<b>098°psc</b>
19	Your 2230 position is LAT 41°07.4'N, LONG 72°44.0'W. Assuming that there is no set and drift, what course must you steer per standard magnetic compass to leave Twenty-Eight Foot Shoal Lighted Buoy 1 mile abeam to starboard?	<b>086°psc</b>	091°psc	094°psc	098°psc
20	Your GPS position is LAT 41°08.5'N, LONG 72°28.8'W. What course must you steer per standard magnetic compass (psc) to leave Cornfield Lighted Whistle Buoy "CF" 0.5 mile abeam to starboard?	032°psc	048°psc	055°psc	<b>067°psc</b>
21	Your GPS position is LAT 41°08.5'N, LONG 72°28.8'W. What course must you steer per standard magnetic compass (psc) to leave Cornfield Lighted Whistle Buoy "CF" 0.5 mile abeam to port?	064°psc	<b>077°psc</b>	088°psc	092°psc

22	Your present position is LAT 41°07.4'N, LONG 72°44.0'W. Assuming that there is no set and drift, what course must you steer per standard magnetic compass (psc) to a position of LAT 41°08.5'N, LONG 72°28.8'W?	073°psc	084°psc	091°psc	<b>097°psc</b>
23					
24	Determine the course per standard magnetic compass from the entrance to Quonochontaug Pond (LAT 41°19.8'N, LONG 71°43.2'W) to the entrance to Great Salt Pond on Block Island.	129.5°psc	134.0°psc	156.0°psc	<b>159.0°psc</b>
25	Determine the course per standard magnetic compass from Cerberus Shoal Buoy 9 (LAT 41°10.4'N, LONG 71°57.1'W) to the entrance to Quonochontaug Pond (LAT 41°19.8'N, LONG 71°43.2'W).	030°psc	036°psc	<b>059°psc</b>	067°psc
26	Determine the course per standard magnetic compass from Cerberus Shoal Buoy 9 (LAT 41°10.4'N, LONG 71°57.1'W) to a position 0.2 mile south of Race Rock Light (LAT 41°14.6'N, LONG 72°02.8'W).	<b>326.5°psc</b>	324.0°psc	298.5°psc	296.0°psc
27	Determine the course per standard magnetic compass from 0.2 mile south of Race Rock Light (LAT 41°14.6'N, LONG 72°02.8'W) to the entrance of the channel to Lake Montauk (west of Montauk Point).	137.0°psc	152.0°psc	165.5°psc	<b>168.5°psc</b>
28	Determine the course per standard magnetic compass from the entrance to Ninigret Pond (LAT 41°21.3'N, LONG 71°38.3'W) to the entrance to Great Salt Pond on Block Island.	192.0°psc	<b>184.0°psc</b>	154.5°psc	152.5°psc
29	You are 3 miles due east of Montauk Point Light. What is the course per standard magnetic compass to a position one mile due south of Block Island Southeast Point Light?	070.0°	076.5°	<b>082.5°</b>	087.5°
30	You are 3 miles due east of Montauk Point Light. What is the course per standard magnetic compass to LAT 41°00.0'N, LONG 71°40.0'W?	145.5°psc	<b>142.5°psc</b>	138.5°psc	127.0°psc
31	You are 3 miles due east of Montauk Point Light. What is the course per standard magnetic compass to a position 0.5 mile due south of Race Rock Light?	<b>324°psc</b>	328°psc	331°psc	339°psc
32	You are 3 miles due east of Montauk Point Light. What is the course per standard magnetic compass to a position 1.5 miles due east of Watch Hill Point Light?	341°psc	337°psc	011°psc	<b>007°psc</b>
33	You are 3 miles due east of Montauk Point Light. What is the course per standard magnetic compass to LAT 41°00.0'N, LONG 71°30.0'W?	108°psc	<b>122°psc</b>	124°psc	130°psc
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35	At 1712 your GPS indicates a position of LAT 36°54.8'N, LONG 75°39.8'W. You are on course 319° per standard magnetic compass at a speed of 9.9 knots. At 1800 your GPS indicates your position at LAT 37°00.0'N, LONG 75°45.8'W. What were the set and drift?	262°T at 0.9 knot	267°T at 1.3 knots	<b>087°T at 1.2 knots</b>	093°T at 0.8 knot
36	At 0939 your GPS position is LAT 36°57.0'N, LONG 75°41.0'W. You are on course 119° per standard magnetic compass at a speed of 12.8 knots. At 1017 your GPS indicates your position as LAT 36°54.2'N, LONG 75°33.1'W. What were the set and drift?	280°T at 1.0 knot	<b>275°T at 1.8 knots</b>	091°T at 1.6 knots	103°T at 1.1 knots
37	At 1239 your GPS indicates a position of LAT 36°55.2'N, LONG 75°33.1'W. You are on course 281° per standard magnetic compass at a speed of 9.2 knots. At 1318 your GPS indicates your position as LAT 36°54.8'N, LONG 75°39.8'W. What were the set and drift?	<b>130°T at 1.2 knots</b>	156°T at 0.6 knot	352°T at 1.3 knots	335°T at 1.0 knot
38	At 0817 your GPS indicates a position of LAT 37°01.6'N, LONG 75°31.7'W. You are on course 182° per standard magnetic compass at a speed of 9.2 knots. At 0913 your GPS indicates your position at LAT 36°52.3'N, LONG 75°30.8'W. What were the set and drift?	121°T at 0.8 knot	139°T at 1.1 knots	<b>219°T at 1.1 knots</b>	298°T at 0.7 knot
39	At 1354 your GPS indicates a position of LAT 37°00.0'N, LONG 75°45.8'W. You are on course 088° per standard magnetic compass at a speed of 9.5 knots. At 1500 your GPS indicates your position as LAT 37°01.6'N, LONG 75°31.7'W. What were the set and drift?	273°T at 0.8 knot	241°T at 1.1 knots	061°T at 1.3 knots	<b>092°T at 0.9 knot</b>
40	At 0919 your position is LAT 37°00.0'N, LONG 75°30.0'W. You are on course 270°T at 8.7 knots. At 1000 your position is LAT 36°59.5'N, LONG 75°37.0'W. What was the current?	137° at 0.6 knot	<b>150° at 1.0 knot</b>	331° at 0.7 knot	347° at 0.7 knot
41	At 0919 your position is LAT 37°00.0'N, LONG 75°30.0'W. You are on course 270°T at 8.7 knots. At 1031 your position is LAT 36°59.5'N, LONG 75°44.9'W. What was the set and drift?	239° at 0.8 knot	<b>252° at 1.3 knots</b>	060° at 0.7 knot	073° at 1.2 knots
42	At 0919 your position is LAT 37°00.0'N, LONG 75°30.0'W. You are on course 270°T at 10.5 knots. At 1020 your position is LAT 36°59.5'N, LONG 75°44.9'W. What was the current?	026° at 0.7 knot	046° at 1.0 knot	226° at 0.8 knot	<b>246° at 1.4 knots</b>
43	At 0919 your position is LAT 37°00.0'N, LONG 75°30.0'W. You are on course 270°T at 8.7 knots. At 1000 your position is LAT 37°00.5'N, LONG 75°37.0'W. What was the set and drift?	010° at 0.5 knot	017° at 1.0 knot	020° at 0.4 knot	<b>032° at 0.9 knot</b>

44	At 0919 your position is LAT 37°00.0'N, LONG 75°30.0'W. You are on course 270°T at 7.8 knots. At 1035 your position is LAT 37°00.5'N, LONG 75°43.8'W. What was the set and drift?	281° at 0.7 knot	<b>292° at 1.0 knot</b>	305° at 1.3 knots	113° at 1.2 knots
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46	At 1620 your GPS indicates a position of LAT 41°09.0'N, LONG 72°40.0'W. You are on course 134° per standard magnetic compass at a speed of 10 knots. At 1700 your GPS indicates your position as LAT 41°05.3'N, LONG 72°33.7'W. What were the set and drift?	067°T at 1.7 knots	078°T at 1.1 knots	243°T at 1.0 knot	<b>249°T at 1.6 knots</b>
47	At 1645 your GPS position is LAT 41°09.2'N, LONG 72°36.9'W. You are steering course 262° per standard magnetic compass at a speed of 12 knots. At 1721 you fix your position by plotting several compass bearings on nearby known fixed objects. These result in a position of LAT 41°07.2'N, LONG 72°44.9'W. What were your set and drift?	040°T at 0.8 knot	<b>030°T at 1.7 knots</b>	225°T at 0.9 knot	242°T at 1.1 knots
48	At 1815 your GPS position is LAT 41°09.2'N, LONG 72°36.9'W. You are steering course 285° per standard magnetic compass at a speed of 16 knots. At 1909 you fix your position by plotting several compass bearings on nearby known fixed objects. These result in a position of LAT 41°08.5'N, LONG 72°53.7'W. What were your set and drift?	292°T at 1.8 knots	243°T at 1.0 knot	118°T at 1.9 knots	<b>111°T at 2.1 knots</b>
49	At 1300 your GPS position is LAT 41°09.2' N, LONG 72°36.9'W. You are steering course 291° per standard magnetic compass at a speed of 8 knots. At 1345 you fix your position by plotting several compass bearings on nearby known fixed objects. These result in a position of LAT 41°09.9'N, LONG 72°46.1'W. Which statement is TRUE with respect to the combined effects of wind and current experienced since 1300?	There has been no set and drift.	Set and drift are westerly at approximately 0.9 knot.	<b>Your speed over the bottom is approximately 9.2 knots.</b>	Set and drift are easterly at approximately 1.0 knot.
50	At 2245 your GPS position is LAT 41°01.75'N, LONG 72°48.40'W. You are steering course 086° per standard magnetic compass at a speed of 6.0 knots. At 2400 you fix your position by plotting several compass bearings on nearby known fixed objects. These result in a position of LAT 41°04.20'N, LONG 72°38.85'W. What were your set and drift?	162°T at .2 knot	180°T at .4 knot	339°T at .5 knot	<b>007°T at .4 knot</b>

51	At 0620 your GPS position is LAT 41°01.8'N, LONG 72°48.40'W. You are steering course 274° per standard magnetic compass at a speed of 10 knots. At 0735 you fix your position by plotting several compass bearings on nearby known fixed objects. These result in a position of LAT 40°59.50'N, LONG 73°06.50'W. What were your set and drift?	304°T at 0.8 knot	<b>276°T at 1.2 knots</b>	099°T at 0.5 knot	094°T at 1.3 knots
52	At 0915 your GPS position is LAT 41°04.9'N, LONG 72°42.1'W. You are on course 085° per standard magnetic compass at a speed of 6 knots. At 1030 your GPS position is 0.5 mile due south of Twenty-Eight Foot Shoal Lighted Buoy "TE". What were your set and drift?	042°T at 2.4 knots	<b>045°T at 1.9 knots</b>	221°T at 2.0 knots	225°T at 2.3 knots
53	At 0912 your GPS position is LAT 41°04.9'N, LONG 72°42.1'W. You are on course 085° per standard magnetic compass at a speed of 6 knots. At 1052 your GPS position is 0.5 mile due south of Twenty-Eight Foot Shoal Lighted Buoy "TE". What were your set and drift?	145°T at 1.2 knots	148°T at 0.9 knot	320°T at 1.3 knots	<b>325°T at 0.7 knot</b>
54	At 1825 your GPS position is LAT 41°04.9'N, LONG 72°42.1'W. You are on course 085° per standard magnetic compass at a speed of 10 knots. At 1910 your GPS position is 1 mile due south of Twenty-Eight Foot Shoal Lighted Buoy. What were your set and drift?	233°T at 2.9 knots	227°T at 2.5 knots	<b>054°T at 2.8 knots</b>	051°T at 2.1 knots
55	At 1922 your GPS position is LAT 41°04.9'N, LONG 72°42.1'W. You are on course 085° per standard magnetic compass at a speed of 10 knots. At 2019 your GPS position is 1 mile due south of Twenty-Eight Foot Shoal Lighted Buoy "TE". What were your set and drift?	<b>343°T at 0.7 knot</b>	340°T at 1.2 knots	164°T at 0.9 knot	161°T at 1.1 knots
56	At 1645 your GPS position is LAT 41°04.9' N, LONG 72°42.1'W. You are on course 072° per standard magnetic compass at a speed of 14 knots. At 1727 another GPS fix places your vessel 1 mile due north of Twenty-Eight Foot Shoal Lighted Buoy TE. What were your set and drift?	032°T at 1.2 knot	<b>026°T at 1.1 knot</b>	207°T at 0.9 knot	212°T at 1.2 knots
57					
58	At 1020 your position is LAT 41°11.0'N, LONG 71°50.0'W. You are on course 056° per standard magnetic compass at 9.2 knots. At 1112 your position is LAT 41°15.9'N, LONG 71°41.7'W. What were the set and drift?	130°T at 0.9 knot	<b>141°T at 1.2 knots</b>	331°T at 0.8 knot	346°T at 1.1 knots

59	At 0947 your position is LAT 41°15.9'N, LONG 71°41.7'W. You are on course 182° per magnetic compass at 11.3 knots. At 1020 your position is LAT 41°09.2'N, LONG 71°40.6'W. What were the set and drift?	211°T at 1.0 knot	<b>229°T at 2.0 knots</b>	058°T at 1.8 knots	043°T at 1.1 knots
60	At 1922 your position is LAT 41°09.2'N, LONG 71°40.6'W. You are on course 028° per standard magnetic compass at 6.4 knots. At 2046 your position is LAT 41°17.2'N, LONG 71°38.6'W. What were the set and drift?	<b>235°T at 0.8 knot</b>	247°T at 1.1 knots	049°T at 0.7 knot	062°T at 1.0 knots
61	At 1516 your position is LAT 41°11.3'N, LONG 71°48.6'W. You are on course 300° per standard magnetic compass at 9.4 knots. At 1600 your position is LAT 41°14.0'N, LONG 71°58.1'W. What were the set and drift?	142°T at 1.9 knots	153°T at 1.4 knots	<b>332°T at 1.5 knots</b>	347°T at 1.1 knots
62	At 2038 your position is LAT 41°09.2'N, LONG 71°40.6'W. You are on course 301° per standard magnetic compass at 7.2 knots. At 2152 your position is LAT 41°11.3'N, LONG 71°48.6'W. What were the set and drift?	080°T at 1.0 knot	<b>096°T at 2.0 knots</b>	261°T at 1.2 knots	277°T at 0.9 knot
63	At 0726 you depart Lake Montauk with light 1 close aboard and set course 013.5° per standard magnetic compass at 7.6 knots. At 0812 your GPS position is LAT 41°10.0'N, LONG 71°55.9'W. What is the current?	151°T at 1.0 knot	<b>164°T at 0.7 knot</b>	334°T at 1.1 knots	321°T at 0.8 knot
64	At 0726 you depart Lake Montauk with light 1 close aboard and set course 310.5° per standard magnetic compass at 7.6 knots. At 0812 your GPS position is LAT 41°08.1'N, LONG 72°03.7'W. What is the current?	151°T at 1.0 knot	164°T at 0.7 knot	<b>334°T at 1.4 knot</b>	321°T at 0.8 knot
65	At 0726 you depart Lake Montauk with light 1 close aboard and set course 065° per standard magnetic compass at 6.7 knots. At 0912 your GPS position is LAT 41°12.8'N, LONG 71°48.2'W. What is the current?	151°T at 1.0 knot	164°T at 0.7 knot	<b>287°T at 2.0 knots</b>	321°T at 0.8 knot
66	At 0726 you depart Lake Montauk with light 1 close aboard and set course 309° per standard magnetic compass at 6.7 knots. At 0818 your GPS position is LAT 41°07.1'N, LONG 72°02.6'W. What is the current?	<b>102°T at 0.6 knot</b>	164°T at 0.7 knot	334°T at 0.9 knot	321°T at 0.6 knot
67	At 0726 you depart Lake Montauk with light 1 close aboard and set course 065° per standard magnetic compass at 6.7 knots. At 0912 your GPS position is LAT 41°10.5'N, LONG 71°46.6'W. What is the current?	151°T at 1.2 knots	164°T at 0.7 knot	227°T at 0.9 knot	<b>240°T at 1.4 knots</b>
68					
69	The abandoned lighthouse west of Cape Henry Light is _____.	painted black and white	a low mound of rubble	<b>a gray, pyramidal structure</b>	a steel skeleton structure

70	The area around Cape Charles is _____ .	<b>low and bare, but the land back of it is high and wooded</b>	composed of low to medium rolling hills	well defined with rocky outcroppings	marked by high, barren hills
71	Fishermans Island (LAT 37°05.0'N, LONG 75°57.7'W) is _____ .	privately owned	sparsely wooded and awash at spring tides	a high rocky promontory with marshy backwater	<b>a National Wildlife Refuge</b>
72	What is the distance from Norfolk to Philadelphia for a deep draft vessel via the Chesapeake Bay and C and D Canal ?	209 miles	<b>245 miles</b>	286 miles	302 miles
73	What is the distance from Chesapeake Bay entrance to Baltimore?	<b>150 nm</b>	162 nm	173 nm	247 nm
74	You wish to anchor and fish in the regulated navigation area in the vicinity of LAT 37°02'N, LONG 76°01'W. Which of the following statements is TRUE?	Anchoring is prohibited in this area due to the danger of unexploded mines on the bottom.	You may anchor in this area only in the event of an emergency such as loss of main propulsion.	<b>You may anchor in this area if your vessel is less than 65 feet in length or if you have the Captain of the Port's permission.</b>	Any vessel can anchor without restriction as the regulations only apply to vessels underway.
75	What correction should be applied to the charted depths of the Poquoson River at York Point at the PM low water on 18 December 1983?	+1.9 feet	-0.1 feet	<b>-0.4 feet</b>	No correction is necessary
76	What is the time (DST ZD +4) of the AM high tide at York Point, Poquoson River on 8 September 1983?	0955	<b>1048</b>	1055	1102
77	What is the velocity of the first maximum flood current in Lynnhaven Roads on 23 July 1983?	<b>0.4 knot</b>	0.5 knot	0.8 knot	1.3 knots
78	What will be the average direction of the current in Lynnhaven Roads at 1000 DST (ZD +4) on 23 July 1983?	305°T	125°T	070°T	<b>Almost slack water</b>
79					
80	Charles Island (LAT 41°11.5'N, LONG 73°03.4'W) is _____ .	a high, rocky pinnacle with steep cliffs	a low, sandy island barren of all vegetation	identified by a tall prominent flagpole	<b>low and partly covered by trees</b>
81	What time will high water occur at Saybrook Jetty on the morning of 29 October 1983?	0145	0255	<b>0405</b>	0920
82	What was the height of the high water at Saybrook Jetty on the afternoon of 18 February 1983?	1.4 ft.	2.0 ft.	2.4 ft.	<b>2.9 ft.</b>
83	What best describes the condition of the tidal current at New London Harbor Entrance, at 0945 on 3 March 1983?	It is slack water.	<b>The current has reached its maximum flood velocity.</b>	It has reached its maximum ebb velocity.	The current is approaching slack water.
84	What is the maximum speed permitted in the Main Entrance Channel to Port Jefferson Harbor?	3 mph	5 mph	7 mph	<b>12 mph</b>



85	At what time will the first maximum flood occur 1 mile east of Old Field Point on 29 April 1983? (You are keeping daylight saving time ZD +4).	0957	1059	<b>1328</b>	1423
86	What will be the height of the high water at Mount Sinai Harbor on the morning of 26 August 1983?	4.1 feet	<b>6.3 feet</b>	7.2 feet	8.4 feet
87	What best describes the structure from which Stratford Point Light is shown?	Brown conical tower with white horizontal band in center of light on black pier	Red conical tower on brown cylindrical pier	White octagonal house on brown cylindrical pier	<b>White conical tower, with brown band midway of height</b>
88	What is the maximum speed permitted in Clinton Harbor?	<b>6 mph</b>	8 mph	10 mph	12 mph
89	According to the U.S. Coast Pilot, what is the depth of the channel between State Pier No. 1 and the U.S. Navy Submarine Base in New London Harbor?	40 feet (12.1 meters)	38 feet (11.5 meters)	<b>36 feet (10.9 meters)</b>	34 feet (10.3 meters)
90	Which statement is FALSE with regard to Plum Island Harbor West Dolphin Light?	The light is maintained from sundown to 0130 daily.	<b>The light is white.</b>	The light is maintained by the U.S. Dept. of Agriculture.	The light is located on a dolphin.
91	What will be the height of the tide at Horton Pt., New York, on 16 June 1983, at 1845 DST (ZD +4)?	0.2 foot	<b>2.7 feet</b>	4.1 feet	5.5 feet
92	What will be the velocity of the tidal current outside the breakwater at New Haven Hbr. entrance on 26 May 1983 at 1045 DST (ZD +4)?	0.0 knot	0.3 knot	<b>0.5 knot</b>	1.3 knots
93					
94	Block Island is _____.	surrounded by wide sandy beaches	a low, marshy island	<b>hilly with elevations to 200 feet (60.5 m)</b>	a national bird sanctuary
95	Great Salt Pond on Block Island is _____.	<b>entered through a dredged cut</b>	not accessible in easterly gales	available for vessels up to a maximum draft of 8 feet (2.4m)	not affected by the tide
96	What is the velocity of the first PM (Daylight Savings Time) maximum ebb current at Plum Gut on 10 August 1983?	3.3 knots	4.0 knots	4.5 knots	<b>5.4 knots</b>
97	Point Judith Harbor of Refuge (LAT 41°22'N, LONG 71°30'W) _____.	is used only by tows	has moorings for small craft along the breakwater	is easily entered in all sea conditions	<b>is entered through either the East Gap or the West Gap</b>
98	What is the time of the first PM (Daylight Savings Time) maximum ebb current at Plum Gut on 10 August 1983?	1231	1249	1340	<b>1445</b>
99	What is the height of the tide at Great Salt Pond on Block Island at the afternoon high water (daylight savings time) on 1 July 1983?	3.9 feet	3.0 feet	2.4 feet	<b>2.1 feet</b>
100	What is the height of the tide at Great Salt Pond, on Block Island, at the morning high water (daylight savings time) on 1 July 1983?	1.3 feet	<b>2.3 feet</b>	3.2 feet	There is no morning high water

101	What is the time (Daylight Savings Time) of the first high tide on 1 July 1983 at Great Salt Pond on Block Island?	0027	0448	1158	1203
102	The passage between Great Gull Island and Plum Island _____.	is subject to weak and variable tidal currents	uncovers at extreme low water	<b>should be avoided</b>	shows a whirlpool at maximum ebb current when accompanied by NW gales
103	What is the velocity of the maximum ebb current approximately 1.1 miles ENE of Little Gull Island in the afternoon of 25 April 1983?	5.5 knots	4.7 knots	4.2 knots	1.3 knots
104					
105	At 1256 your GPS position is LAT 36°57.0'N, LONG 75°41.0'W. At 1336 your position is LAT 37°07.5'N, LONG 75°39.1'W. What was the speed made good between the fixes?	14.6 knots	15.2 knots	16.0 knots	18.6 knots
106	At 1256 your GPS position is LAT 36°57.0'N, LONG 75°41.0'W. At 1331 your position is LAT 37°07.5'N, LONG 75°39.1'W. What was the speed made good between the fixes?	14.6 knots	15.2 knots	16.6 knots	18.3 knots
107	At 1614 your GPS position is LAT 37°01.6'N, LONG 75°31.7'W. At 1703 your position is LAT 36°57.0'N, LONG 75°41.0'W. What was the course made good between the fixes?	238°T	242°T	247°T	250°T
108	At 0856 your GPS position is LAT 37°01.6'N, LONG 75°31.7'W. At 0945 your position is LAT 36°57.0'N, LONG 75°41.0'W. What was the speed made good between the fixes?	8.4 knots	8.9 knots	9.6 knots	10.7 knots
109	At 1422 your GPS position is LAT 37°07.5'N, LONG 75°39.1'W. At 1549 your position is LAT 36°57.0'N, LONG 75°41.0'W. What was the course made good between the fixes?	185°T	188°T	194°T	198°T
110	At 1919 your position is LAT 37°00.0'N, LONG 75°30.0'W. At 2000 your position is LAT 36°59.5'N, LONG 75°37.0'W. What was the speed made good?	5.6 knots	6.6 knots	8.2 knots	9.1 knots
111	At 1919 your position is LAT 37°00.0'N, LONG 75°30.0'W. At 1950 your position is LAT 36°59.5'N, LONG 75°37.0'W. What is the speed made good?	5.6 knots	8.2 knots	9.1 knots	10.9 knots
112	At 1919 your position is LAT 37°00.0'N, LONG 75°30.0'W. At 2031 your position is LAT 36°59.5'N, LONG 75°44.9'W. What was the speed made good?	8.2 knots	9.3 knots	10.0 knots	10.9 knots
113	At 1919 your position is LAT 37°00.0'N, LONG 75°30.0'W. At 2011 your position is LAT 36°59.5'N, LONG 75°44.9'W. What was the speed made good?	13.7 knots	12.0 knots	11.6 knots	10.9 knots

114	At 1919 your position is LAT 37°00.5'N, LONG 75°43.8'W. At 2019 your position is LAT 37°00.0'N, LONG 75°30.0'W. What is the course made good?	090°T	<b>093°T</b>	096°T	099°T
115					
116	At 1035 your GPS position of LAT 41°05.3'N, LONG 72°33.7'W. At 1103 your position is LAT 41°09.0'N, LONG 72°40.0'W. What was your speed made good?	6.1 knots	9.5 knots	<b>13.0 knots</b>	14.8 knots
117	At 1520 your GPS position is LAT 41°13.1'N, LONG 72°16.1'W. At 1630 your position is LAT 41°17.5'N, LONG 72°04.7'W. What were your true course and speed made good?	344° at 8.2 knots	077° at 9.5 knots	<b>063° at 8.3 knots</b>	059° at 8.1 knots
118	At 1018 your position is LAT 41°14.4'N, LONG 72°07.2'W. At 1036 your vessels position is LAT 41°13.1'N, LONG 72°16.1'W. What was your true course and speed made good?	<b>259° at 22.6 knots</b>	245° at 23.1 knots	079° at 22.8 knots	065° at 25.5 knots
119	At 2115 your position is LAT 41°14.4'N, LONG 72°07.2'W. At 0015 your position is LAT 41°03.3'N, LONG 72°37.9'W. What was your true course made good?	062°T	076°T	<b>245°T</b>	259°T
120	At 2115 your GPS position is LAT 41°03.3'N, LONG 72°37.9'W. At 0027 your position is LAT 41°14.4'N, LONG 72°07.2'W. What was your speed made good?	7.0 knots	7.5 knots	<b>8.0 knots</b>	8.5 knots
121	At 2125 your GPS position is LAT 41°05.7'N, LONG 72°46.5'W. At 2208 your position is LAT 41°03.3'N, LONG 72°37.9'W. What was your course made good by standard magnetic compass?	<b>123°psc</b>	287°psc	303°psc	326°psc
122	At 2021 your position is LAT 41°09.7'N, LONG 72°59.8'W. At 2057 your position is LAT 41°00.5'N, LONG 72°49.5'W. What are your true course and speed made good?	<b>140° at 20 knots</b>	145° at 18 knots	316° at 19 knots	320° at 17 knots
123	At 1930 your GPS position is LAT 41°00.5'N, LONG 72°49.5'W. At 2018 your position is LAT 41°08.6'N, LONG 72°41.6'W. What was your true course and speed made good?	219° at 10.1 knots	214° at 12.5 knots	<b>036° at 12.6 knots</b>	039° at 11.2 knots
124	At 1930 your GPS position is LAT 41°08.6'N, LONG 72°41.6'W. At 2024 your position is LAT 41°00.5'N, LONG 72°49.5'W. What is your true course and speed made good?	219° at 10.1 knots	<b>216° at 11.2 knots</b>	039° at 9.9 knots	036° at 11.1 knots
125	At 0647 your position is LAT 41°08.6'N, LONG 72°41.6'W. At 0729 your position is LAT 41°10.3'N, LONG 72°29.2'W. What were your true course and speed made good?	074° at 9.5 knots	<b>080° at 13.6 knots</b>	253° at 9.7 knots	258° at 13.5 knots

126	At 0647 a GPS fix places your vessel 1 mile due south of buoy "8C" (buoy position LAT 41°10.8'N, LONG 72°29.4'W). At 0753 another GPS fix places your vessel at LAT 41°08.6'N, LONG 72°41.6'W. What were your true course and speed made good?	088° at 9.6 knots	192° at 8.8 knots	<b>263° at 8.5 knots</b>	268° at 9.1 knots
127					
128	At 2016 your GPS position is LAT 41°07.6'N, LONG 71°37.8'W. At 2128 your GPS position is LAT 41°00.4'N, LONG 71°29.4'W. What was the speed made good between the two positions?	11.9 knots	10.2 knots	<b>8.0 knots</b>	7.4 knots
129	At 2016 your GPS position is LAT 41°07.6'N, LONG 71°33.8'W. At 2128 your position is LAT 41°00.4'N, LONG 71°29.4'W. What was the speed made good between the two positions?	11.9 knots	10.2 knots	8.9 knots	<b>6.7 knots</b>
130	At 1016 your GPS position is LAT 41°07.6'N, LONG 71°38.5'W. At 1104 your position is LAT 41°00.4'N, LONG 71°29.4'W. What was the speed made good between the two positions?	10.9 knots	11.7 knots	<b>12.5 knots</b>	13.6 knots
131	At 1016 your GPS position is LAT 41°07.6'N, LONG 71°37.9'W. At 1104 your position is LAT 41°00.2'N, LONG 71°29.4'W. What was the true course made good between the two positions?	134°T	<b>139°T</b>	143°T	145°T
132	At 1016 your position is LAT 41°07.6'N, LONG 71°38.5'W. At 1116 your position is LAT 41°01.4'N, LONG 71°29.4'W. What was the course made good between the two positions?	<b>132°T</b>	135°T	140°T	143°T
133	At 1014 you depart the entrance to Lake Montauk with light "1" close aboard. Your course is 066° per standard magnetic compass, and the speed is 8.6 knots. At 1230 your position is LAT 41°20.0'N, LONG 71°40.0'W. What is the speed made good?	8.0 knots	8.3 knots	<b>8.6 knots</b>	8.9 knots
134	At 1014 you depart the entrance to Lake Montauk with Light "1" close aboard. Your course is 066° per standard magnetic compass, and the speed is 8.6 knots. At 1238 your position is LAT 41°20.0'N, LONG 71°40.0'W. What is the speed made good?	<b>8.2 knots</b>	8.6 knots	8.9 knots	9.2 knots
135	At 1014 you depart the entrance to Lake Montauk with light "1" close aboard. Your course is 066° per standard magnetic compass, and the speed is 8.6 knots. At 1222 your position is LAT 41°20.0'N, LONG 71°40.0'W. What is the speed made good?	8.4 knots	8.6 knots	<b>9.2 knots</b>	9.6 knots

136	At 1014 you depart the entrance to Lake Montauk with light "1" close aboard. Your course is 066° per standard magnetic compass, and the speed is 8.6 knots. At 1232 your position is LAT 41°20.0'N, LONG 71°40.0'W. What is the speed made good?	8.2 knots	<b>8.5 knots</b>	8.9 knots	9.2 knots
137	At 1014 you depart the entrance to Lake Montauk with light "1" close aboard. Your course is 066° per standard magnetic compass, and the speed is 8.6 knots. At 1232 your position is LAT 41°20.0'N, LONG 71°40.0'W. What is the course made good?	036°T	<b>040°T</b>	044°T	047°T
138					
139	What is the true heading to steer outbound in Thimble Shoal Channel if your engines are turning for 8.0 knots, the current is 050°T at 1.0 knot and a northerly wind causes 3° of leeway?	<b>111°T</b>	104°T	101°T	098°T
140	What is the true heading to steer inbound in the York River Entrance Channel if your engines are turning for 9.5 knots, the current is 076°T at 1.2 knots, and a southwesterly wind causes 3° of leeway?	313°T	308°T	303°T	<b>300°T</b>
141	You are eastbound in the Thimble Shoal Channel. What is the true heading to steer if the engines are turning for 9.5 knots, the current is 110°T at 1.2 knots, and a southerly wind causes 3° of leeway?	<b>111°</b>	108°	105°	100°
142	What is the true heading to steer inbound in York River Entrance Channel if your engines are turning for 9.8 knots, the current is 220°T at 1.2 knots, and a northeasterly wind causes 3° of leeway?	<b>319°T</b>	315°T	301°T	298°T
143	What is the true heading to steer in York River Entrance Channel if your engines are turning for 10.2 knots, the current is 220°T at 1.2 knots and a southwesterly wind causes 3° of leeway?	316°T	<b>313°T</b>	309°T	300°T
144	Your position is LAT 37°00.0'N, LONG 75°30.0'W. What is the course to steer per standard magnetic compass to arrive at LAT 36°59.0'N, LONG 75°48.5'W, if the current is 043°T at 1.3 knots, a south-southeasterly wind is causing 3° of leeway, and you are turning for 8.7 knots?	260.5°psc	264.0°psc	<b>268.0°psc</b>	271.5°psc
145	Your position is LAT 37°00.0'N, LONG 75°30.0'W. What is the course to steer per standard magnetic compass to arrive at LAT 36°59.0'N, LONG 75°48.5'W, if you are turning for 8.7 knots, the current is 039°T at 1.3 knots, and a northwesterly wind is causing 3° of leeway?	264.0°	267.5°	270.0°	<b>273.0°</b>

146	Your position is LAT 37°00.0'N, LONG 75°30.0'W. What is the course to steer per standard magnetic compass to arrive at LAT 36°59.0'N, LONG 75°48.5'W, if you are turning for 7.8 knots, the current is 139°T at 1.3 knots, and a northwesterly wind is causing 3° of leeway?	290.0°psc	<b>286.0°psc</b>	283.5°psc	280.5°psc
147	Your position is LAT 37°00.9'N, LONG 75°30.0'W. What is the course to steer per magnetic compass to arrive at LAT 36°59.0'N, LONG 75°48.5'W, if you are turning for 7.8 knots the current is 339°T at 1.3 knots, and a northwesterly wind is causing 3° of leeway?	<b>265°psc</b>	267°psc	269°psc	271°psc
148	Your position is LAT 37°00.0'N, LONG 75°30.0'W. What is the course to steer per standard magnetic compass to arrive at LAT 36°59.0'N, LONG 75°48.5'W, if you are making 7.8 knots, the current is 239°T at 1.3 knots, and a southeasterly wind is causing 3° of leeway?	271°psc	274°psc	<b>278°psc</b>	282°psc
149					
150	What is the course to steer between Port Jefferson Approach buoy "PJ" and New Haven Lighted Buoy "NH"? Your engine speed is 12 knots and you allow for a current of 93°T at 0.8 knot. A NW'ly wind causes 3° leeway.	<b>030°T</b>	034°T	037°T	044°T
151	What course should you steer by standard magnetic compass (psc) between Horton Pt. Light and Falkner Island Light, if the set and drift of the current are 040°T at 0.9 knot, and a westerly wind will cause 2° of leeway? Your engines are making turns for 10 knots.	<b>314.0°psc</b>	319.0°psc	324.5°psc	328.5°psc
152	What course should you steer by your standard magnetic compass (psc), between New Haven Light and Stratford Pt. Light, if the set and drift of the current are 345°T at 3.0 knots, and a northerly wind will cause 1° of leeway? Your engines are making turns for 18.0 knots.	245.0°psc	<b>247.0°psc</b>	264.0°psc	266.5°psc
153	What is the true course to steer between Falkner Island Light and Horton Point Light, if the set and drift of the current are 041° at 2.4 knots, and a northeasterly wind will cause 4° of leeway? Your engines are making turns for 15 knots.	116°T	124°T	<b>134°T</b>	142°T
154	Your engines are making turns for 8 knots and a northerly wind is causing 3° of leeway. There is a current of 220°T at 1.5 knots. What is the course to steer between Branford Reef Light and Faulkner Island Light?	<b>084°T</b>	095°T	102°T	108°T

155	What is the true course to steer between Stratford Shoal (Middle Ground Light) and New Haven Light, if the set and drift of the current are 048°T at 2 knots, and a southeasterly wind will cause 2° of leeway? Your engines are making turns for 10 knots.	032°T	037°T	039°T	041°T
156	What course should you steer by standard magnetic compass between Mattituck Inlet and Branford Reef Light, if the set and drift of the current are 027° at 2.5 knots, and a northeasterly wind will cause 1° of leeway? Your engines are turning for 12 knots.	295°psc	305°psc	317°psc	320°psc
157	What course should you steer by your standard magnetic compass (psc) between Horton Pt. Light and a position 2 miles due south of Branford Reef Light, if the set and drift of the current are 111°T at 2.5 knots, and a southwesterly wind will cause 4° of leeway? (Your engines are turning for 18 knots.)	306°psc	301°psc	295°psc	275°psc
158	What is the true course to steer from a position 2 miles due south of Branford Reef Light to Horton Pt. Light, if the set and drift of the current are 247°T at 3 knots, and a southwesterly wind will cause 3° of leeway? (Your engines are making turns for 10 knots.)	104°T	100°T	095°T	087°T
159	What course should you steer by your standard magnetic compass (psc) from a position 2 miles due south of Branford Reef Light to Horton Pt. Light, if the set and drift of the current are 065°T at 2 knots, and a northerly wind will cause 2° of leeway? Your engines are turning for 14 knots.	113°psc	118°psc	128°psc	134°psc
160	What is the true course to steer between Horton Pt. Light and a position 2 miles due south of Branford Reef Light, if the set and drift of the current are 40°T at 1.5 knots, and an easterly wind will cause 3° of leeway? Your engines are making turns for 12 knots.	277°T	283°T	287°T	291°T
161					
162	What is the true course to steer between the entrance to Great Salt Pond (LAT 41°12.0'N, LONG 71°35.6'W) and the entrance to Quonochontaug Pond (LAT 41°19.8'N, LONG 71°43.2'W), if you are turning for 8.5 knots, and you allow for a current of 247°T at 1.2 knots, and an easterly wind is causing 2° of leeway?	314°T	320°T	328°T	333°T

163	You are turning for 7.5 knots and a westerly wind is causing 2° of leeway. There is a current of 047°T at 1.2 knots. What course should you steer between the entrance to Quonochontaug Pond (LAT 41°19.8'N, LONG 71°43.2'W) and the entrance to Great Salt Pond (LAT 41°12.0'N, LONG 71°35.6'W)?	156°T	155°T	144°T	140°T
164	What is the true course to steer between the entrance to Lake Montauk (LAT 41°04.8'N, LONG 71°56.3'W) and Winnapaug Pond entrance) LAT 41°19.6'N, LONG 71°45.8'W), if you are turning for 9.5 knots, allow for a current of 075°T at 1.2 knots, and a westerly wind is causing 3° of leeway?	021°T	024°T	027°T	029°T
165	What is the true course to steer between the entrance to Winnapaug Pond (LAT 41°19.6'N, LONG 71°45.8'W) and the entrance to Lake Montauk (LAT 41°04.8'N, LONG 71°56.3'W), if you are turning for 8.5 knots, allowing for a current of 095°T at 0.9 knot, and an easterly wind is causing 3° of leeway?	200°T	208°T	211°T	214°T
166	What is the true course to steer between the entrance to Winnapaug Pond (LAT 41°19.6'N, LONG 71°45.8'W) and the entrance to Lake Montauk (LAT 41°04.8'N, LONG 71°56.3'W), if you are turning for 6.5 knots, allow for a current of 295°T at 0.9 knot, and an easterly wind is causing 4° of leeway?	196°T	200°T	213°T	217°T
167	Your position is 3 miles due east of Montauk Point Light. What is the course to steer to arrive one mile due south of Block Island Southeast Point Light, if you are turning for 8.6 knots, the current is 130° at 1.2 knots, and a northerly wind causes 3° of leeway?	061°T	064°T	067°T	070°T
168	Your position is 3 miles due east of Montauk Point Light. What is the course to steer to arrive at LAT 41°00.0'N, LONG 71°30.0'W, if you are turning for 8.7 knots, the current is 130° at 1.2 knots, and a northerly wind causes 3° of leeway?	112°T	108°T	105°T	102°T
169	Your position is 3 miles due east of Montauk Point Light. What is the course to steer to arrive at LAT 41°00.0'N, LONG 71°30.0'W, if you are turning for 7.8 knots, the current is 130° at 1.2 knots, and a southerly wind causes 3° of leeway?	112°T	108°T	105°T	102°T



170	Your position is 3 miles due east of Montauk Point Light. What is the course to steer to arrive at LAT 41°00.0'N, LONG 71°30.0'W, if you are turning for 7.8 knots, the current is 330° at 1.2 knots, and a southerly wind causes 3° of leeway?	117°T	112°T	104°T	102°T
171	Your position is 3 miles due east of Montauk Point Light. What is the true course to steer to arrive one mile due south of Block Island Southeast Point Light, if you are turning for 6.8 knots, the current is 330° at 1.2 knots, and a southerly wind causes 3° of leeway?	081°T	084°T	087°T	090°T
172					
173	You sight Wolf Trap Light in line with New Point Comfort Spit Light "2" bearing 040° per standard magnetic compass. You are on course 319° per standard magnetic compass. Based on this, you _____.	know the compass error is 8°W	should apply 3°Easterly deviation to the bearing	know the deviation table is incorrect	should suspect the compass may be affected by a local magnetic disturbance
174	You sight Thimble Shoal Light in line with Old Point Comfort Light bearing 267° per standard magnetic compass. You are on course 182°psc. Based on this, you know _____.	the existing deviation is correct for that heading	you should adjust your compass	the compass error is 2°W	the variation is 11°W
175	You sight Thimble Shoal Light in line with Old Point Comfort Light bearing 265° per standard magnetic compass. You are on course 135°psc. Based on this, you know _____.	there is no compass error	there is a local magnetic disturbance	you should swing your vessel and check the deviation table	the deviation is 0°
176	You sight Wolf Trap Light in line with New Point Comfort Spit Light "2" bearing 048° per standard magnetic compass. You are on course 203°psc. Based on this, you know _____.	the compass error is 12°W	the deviation is 9°W	that the deviation table is in error	the deviation is 3°E for bearings of 048° per standard magnetic compass
177	You sight Wolf Trap Light in line with New Point Comfort Spit Light "2" bearing 234° per standard magnetic compass. You are on course 329°psc. Based on this, you _____.	know the compass error is 8°W	should swing the vessel to check the deviation table	know the deviation is 1°W	know the deviation table is accurate for that bearing
178	While in the Back River, you sight the two tanks along the Northwest Branch (vicinity LAT 37°05.6'N, LONG 76°22.0'W) in line bearing 274°psc. If your vessel is heading 300°psc, what is TRUE?	There is no deviation.	The deviation is equal to the variation.	The deviation is 9°E.	The deviation is 0° only for a bearing of 274°psc.
179	While in the Back River, you sight the two tanks along the Northwest Branch (vicinity LAT 37°05.6'N, LONG 76°22.0'W) in line bearing 277° per standard magnetic compass. If your vessel is heading 243°psc, what is TRUE?	There is no deviation.	The deviation table is incorrect.	The compass error is 12°W.	The deviation is 3°E for bearings of 277°psc.

180	You sight Tue Marshes Light (LAT 37°14.1'N, LONG 76°23.2'W) in line with Goodwin Thorofare Light "16" (LAT 37°13.7'N, LONG 76°25.0'W) bearing 267° per standard magnetic compass. What is TRUE if your vessel's heading is 056°psc?	The compass error is 13°E.	<b>The deviation table is in error and should be corrected.</b>	The deviation is 4°E.	The deviation table is correct for a heading of 056°psc.
181	You sight Tue Marshes Light (LAT 37°14.1'N, LONG 76°23.2'W) in line with Goodwin Thorofare Light "16" (LAT 37°13.7'N, LONG 76°25.0'W) bearing 262° per standard magnetic compass. What is TRUE if your vessel's heading is 119°psc?	The compass error is 10°W.	The deviation table must be corrected for the change in date.	The deviation is 1°W.	<b>The deviation table is correct for a heading of 119°psc.</b>
182	You sight Tue Marshes Light (LAT 37°14.1'N, LONG 76°23.2'W) in line with Goodwin Thorofare Light "16" (LAT 37°13.7'N, LONG 76°25.0'W) dead ahead bearing 264° per standard magnetic compass. Which statement is TRUE?	<b>The compass error is 11°W.</b>	The deviation table must be corrected for the change in date.	The deviation is 1°W for a bearing of 264° only.	The variation is 9°W for a bearing of 264° only.
183					
184	You are on course 119°psc. You sight New Haven Outer Channel Range Rear Light in line with the Outer Channel Range Front Light bearing 346° per standard magnetic compass. This indicates that _____.	you should swing the vessel to determine the deviation	<b>the existing deviation table is correct for that heading</b>	your compass is affected by a local magnetic disturbance	the compass error is 16°W
185	Your vessel is steady on a heading of 203° per standard magnetic compass when you sight New Haven Light and New Haven Outer Channel Range Front Light in line over the stern. This information indicates that the _____.	existing deviation table is correct for this heading	compass error is 17°W	<b>deviation table is in error for this heading</b>	deviation is 1°E
186	Your vessel is steady on a heading of 310° per standard magnetic compass when you sight Stratford Point Light and Igor I. Sikorsky Airport Aero Beacon in line dead ahead. This information indicates that the _____.	existing deviation table is correct for this heading	deviation is 1°E	variation is 18°W for this area	<b>compass error is 10°W</b>
187	You sight Stratford Shoal (Middle Ground) Light and Old Field Pt. Light in line and bearing 200° per standard magnetic compass. What is the deviation of the compass?	7°E	7°W	<b>3°E</b>	3°W
188	Your vessel is steady on a heading of 160° per standard magnetic compass when you sight Southwest Ledge Light and New Haven Outer Channel Range Rear Light in line dead astern. What is the deviation of the compass based on this observation?	<b>2°E</b>	2°W	5°E	5°W
189	You sight Bartlett Reef Light (LAT 41°16.5'N, LONG 72°08.2'W) in line with New London Harbor Light (LAT 41°19.0'N, LONG 72°05.4'W) and bearing 059° per standard magnetic compass. What is the compass deviation?	4°E	<b>4°W</b>	10°E	10°W

190	You sight Stratford Pt. Light in line with the Igor I. Sikorsky Airport Aero Beacon bearing 319° per standard magnetic compass. What is the compass deviation?	4°W	4°E	18°W	18°E
191	You sight Stratford Pt. Light in line with the Igor I. Sikorsky Airport Aero Beacon bearing 319° per standard magnetic compass. What is the compass error?	4°E	10°W	14°E	18°W
192	You sight South West Ledge Light in line with New Haven Outer Channel Range Rear Light bearing 338.5° per standard magnetic compass. What is the deviation?	3°E	4°W	6°E	9°W
193	You sight New Haven Outer Channel Range Rear Light in line with the Outer Channel Range Front Light bearing 343° per standard magnetic compass. What is your compass error?	5°E	5°W	9°E	9°W
194					
195	You are on course 244° per standard magnetic compass when you sight Block Island Southeast Point Light in line with Block Island Aero Beacon bearing 326° per standard magnetic compass. Based on this you _____.	should swing your vessel to check the deviation table	know the compass error is 12°W	should suspect that there is a local magnetic disturbance	<b>should apply 3°W deviation to any bearing (psc) while on a heading of 244°psc</b>
196	You are on course 055° per standard magnetic compass when you sight Block Island Southeast Point Light in line with the Block Island Aero Beacon bearing 319° per standard magnetic compass. Based on this you _____.	should use 4°W deviation on true courses of 040°	know the compass error is 19°W	<b>know the deviation table is correct for that heading</b>	should apply 4°W deviation to all bearings
197	You are on course 203° per standard magnetic compass when you sight Block Island North Light in line with the Block Island Aero Beacon bearing 194° per standard magnetic compass. Based on this you _____.	know the correct deviation is 3°W	<b>should swing your vessel to check the deviation table</b>	should apply 15°W compass error to all compass readings	know you are steering a true course of 185°
198	You are on course 056° per standard magnetic compass when you sight Block Island North Light in line with the Block Island Aero Beacon bearing 193° per standard magnetic compass. Based on this you _____.	know the compass error is 4°E	should swing your vessel to check for deviation	<b>know the deviation table is correct for that heading</b>	should use 3°W deviation on bearings of 193°psc
199	You are on course 302° per standard magnetic compass when you sight Block Island Southeast Point Light in line with the Block Island Aero Beacon bearing 323° per standard magnetic compass. Based on this you _____.	<b>know the deviation table is correct for that heading</b>	know the deviation is 15°E	should swing your vessel to check the deviation table	know the deviation is equal to the variation

200	You sight North Dumpling Island Light in line with Latimer Reef Light (LAT 41°18.2'N, LONG 71°56.0'W) bearing 095° per standard magnetic compass. If your vessel was heading 056° per standard magnetic compass at the time, which of the following is TRUE?	You should subtract 15° Compass error for bearings of 095°.	The deviation table is correct for all bearings of 095°.	<b>The vessel should be swung, and the deviation table checked.</b>	The compass error is 19°W for all headings.
201	You sight North Dumpling Island Light in line with Latimer Reef Light (LAT 41°18.2'N, LONG 71°56.0'W) bearing 093° per standard magnetic compass. If your vessel was heading 185° per standard magnetic compass at the time, which of the following is TRUE?	The compass error is 2°W.	The deviation is 17°W.	The deviation is 2°W for all bearings of 093°.	<b>The deviation table is correct for that heading.</b>
202	You sight North Dumpling Island Light in line with Latimer Reef Light (LAT 41°18.2'N, LONG 71°56.0'W) bearing 094° per standard magnetic compass. If your vessel was heading 207° per standard magnetic compass at the time, which of the following is TRUE?	<b>The deviation table is correct for that heading.</b>	The deviation by observation is 3°E.	The compass error is 12°W.	You should subtract 18° from all bearings of 094°.
203	You sight North Dumpling Island Light in line with Latimer Reef Light (LAT 41°18.2'N, LONG 71°56.0'W) bearing 089° per standard magnetic compass. If your vessel was heading 297° per standard magnetic compass at the time, which of the following is TRUE?	The deviation table is correct for that heading.	The deviation equals the variation.	<b>You should swing your vessel to check the deviation table.</b>	The compass error is 13°W for all bearings of 089°psc.
204	You sight North Dumpling Island Light in line with Latimer Reef Light (LAT 41°18.2'N, LONG 71°56.0'W) bearing 091° per standard magnetic compass. If your vessel was heading 246° per standard magnetic compass at the time, which of the following is TRUE?	The deviation table is correct.	<b>The compass error is 18°W for that heading.</b>	The deviation is equal to the variation.	The deviation is equal to but of opposite sign to the variation.
205					
206	You are on course 135° per standard magnetic compass when you take the following bearings per standard magnetic compass: Cape Henry Light 266° Cape Charles Light 353° Chesapeake Light 124° What is your position?	<b>LAT 36°57.3'N, LONG 75°50.9'W</b>	LAT 36°57.5'N, LONG 75°50.1'W	LAT 36°57.6'N, LONG 75°51.6'W	LAT 35°57.9'N, LONG 75°50.8'W
207	You are on course 056° per standard magnetic compass when you take the following bearings: Cape Henry Light 262°psc Cape Charles Light 344°psc Chesapeake Light 125°psc What is your position?	LAT 36°58.4'N, LONG 75°49.1'W	LAT 36°58.1'N, LONG 75°50.0'W	LAT 36°57.8'N, LONG 75°49.2'W	<b>LAT 36°57.6'N, LONG 75°49.8'W</b>
208	You are on course 262° per standard magnetic compass when you take the following bearings: Cape Henry Light 252°psc Cape Charles Light 003°psc Chesapeake Light 131°psc What is your position?	<b>LAT 36°59.0'N, LONG 75°52.9'W</b>	LAT 36°58.1'N, LONG 75°52.6'W	LAT 36°57.9'N, LONG 75°53.2'W	LAT 36°58.6'N, LONG 75°52.2'W
209	You are on course 056°psc, when you take the following bearings: New Point Comfort Spit Light "2" 260°psc Horn Harbor Entrance Light "HH" 285°psc Wolf Trap Light 336°psc What is the position of the fix?	<b>LAT 37°19.3'N, LONG 76°08.5'W</b>	LAT 37°19.3'N, LONG 76°08.8'W	LAT 37°19.2'N, LONG 76°08.2'W	LAT 37°19.2'N, LONG 76°08.7'W

210	You are on course 203° per standard magnetic compass when you take the following bearings: New Point Comfort Spit Light "2" 267°psc Horn Harbor Entrance Light HH 304°psc Wolf Trap Light 006°psc What is the position of the fix?	LAT 37°18.9'N, LONG 76°10.4'W	<b>LAT 37°18.8'N, LONG 76°10.8'W</b>	LAT 37°18.7'N, LONG 76°11.1'W	LAT 37°18.5'N, LONG 76°10.7'W
211	You are on course 300° per standard magnetic compass (psc) when you take the following bearings: New Point Comfort Spit Light "2" 240°psc Horn Harbor Entrance Light HH 268°psc Wolf Trap Light 003°psc What is the position of the fix?	LAT 37°20.8'N, LONG 76°09.6'W	<b>LAT 37°20.8'N, LONG 76°11.0'W</b>	LAT 37°20.9'N, LONG 76°11.5'W	LAT 37°21.1'N, LONG 76°08.2'W
212	You are on course 319° per standard magnetic compass when you take the following bearings: New Point Comfort Spit Light "2" 244°psc Horn Harbor Entrance Light "HH" 267°psc Wolf Trap Light 335°psc  What is the position of the fix?	LAT 37°20.9'N, LONG 76°09.7'W	LAT 37°21.0'N, LONG 76°09.2'W	LAT 37°21.0'N, LONG 76°09.9'W	<b>LAT 37°21.1'N, LONG 76°09.5'W</b>
213	You are on course 027° per magnetic compass when you take the following bearings per magnetic compass: New Point Comfort Spit Light "2" 253° Horn Harbor Entrance Light HH 282° Wolf Trap Light 348° What is the position of the fix?	LAT 37°19.4'N, LONG 76°09.5'W	LAT 37°19.4'N, LONG 76°09.8'W	LAT 37°19.7'N, LONG 76°10.3'W	<b>LAT 37°19.7'N, LONG 76°09.9'W</b>
214					
215	You are on course 243° per standard magnetic compass when you take the following bearings: Falkner Island Light 342°psc Mattituck Inlet Light 207°psc Horton Point Light 112°psc What is your position?	LAT 41°05.9'N, LONG 72°32.7'W	LAT 41°05.7'N, LONG 72°31.8'W	<b>LAT 41°05.5'N, LONG 72°32.6'W</b>	LAT 41°05.3'N, LONG 72°31.9'W
216	You are on course 062° per standard magnetic compass when you take the following bearings: Branford Reef Light 060°psc Stratford Point Light 272°psc New Haven Light 324°psc What is your position?	LAT 41°07.1'N, LONG 72°53.4'W	<b>LAT 41°10.5'N, LONG 72°52.8'W</b>	LAT 41°11.6'N, LONG 72°50.0'W	LAT 41°13.3'N, LONG 72°48.7'W
217	You are on course 087° per standard magnetic compass (psc) when you take the following bearings: Falkner Island Light - 022.0°psc Horton Point Light - 111.5°psc Mt. Sinai Breakwater Light - 254.0°psc What is your position?	LAT 41°13.6'N, LONG 72°46.6'W	LAT 41°10.5'N, LONG 72°40.5'W	LAT 41°07.0'N, LONG 72°44.5'W	<b>LAT 41°06.8'N, LONG 72°40.7'W</b>
218	You are on course 082° per standard magnetic compass (psc) when you take the following bearings: New London Ledge Light - 036.5°psc Little Gull Island Light - 157.0°psc Saybrook Break Water Light - 294.5°psc What is your position?	LAT 41°02.3'N, LONG 72°04.5'W	LAT 41°09.5'N, LONG 72°07.1'W	<b>LAT 41°13.6'N, LONG 72°07.5'W</b>	LAT 41°14.1'N, LONG 72°12.8'W

219	You are on course 209° per standard magnetic compass when you take the following bearings: New Haven Light - 331.5°psc Branford Reef Light - 066.5°psc Old Field Point Light - 240.5°psc What is your position?	<b>LAT 41°10.5'N, LONG 72°52.8'W</b>	LAT 41°11.3'N, LONG 72°49.9'W	LAT 41°13.6'N, LONG 72°53.0'W	LAT 41°14.5'N, LONG 72°48.8'W
220	You are on course 240° per standard magnetic compass when you take the following bearings: Old Field Point Light 253°psc New Haven Light 357°psc Mattituck Inlet Light 126°psc What is your position?	LAT 41°04.5'N, LONG 72°49.2'W	LAT 41°05.7'N, LONG 72°50.2'W	<b>LAT 41°05.9'N, LONG 72°53.1'W</b>	LAT 41°08.6'N, LONG 72°53.5'W
221	You are on course 083° per standard magnetic compass when you take the following bearings: Branford Reef Light 344.5°psc Falkner Island Light 053.5°psc Mattituck Inlet Light 141.5°psc What is your position?	LAT 41°10.4'N, LONG 72°43.0'W	LAT 41°09.6'N, LONG 72°44.9'W	LAT 41°08.4'N, LONG 72°43.7'W	<b>LAT 41°08.0'N, LONG 72°44.8'W</b>
222	You are on course 239° per standard magnetic compass when you take the following bearings: Falkner Island Light 314°psc Duck Island West Breakwater Light 2DI 039°psc Horton Point Light 157°psc What is your position?	<b>LAT 41°09.9'N, LONG 72°32.0'W</b>	LAT 41°09.3'N, LONG 72°33.0'W	LAT 41°10.5'N, LONG 72°32.1'W	LAT 41°11.6'N, LONG 72°33.6'W
223	You are on course 061° per standard magnetic compass when you take the following bearings: Bartlett Reef Light 070°psc Saybrook Breakwater Light 010°psc Horton Pt. Light 218°psc What is your position?	LAT 41°10.4'N, LONG 72°19.6'W	<b>LAT 41°11.2'N, LONG 72°20.6'W</b>	LAT 41°13.7'N, LONG 72°23.9'W	LAT 41°15.4'N, LONG 72°24.3'W
224	You are on course 262° per standard magnetic compass when you take the following bearings: Saybrook Breakwater Light - 338.5°psc Little Gull Island Light - 107.5°psc Horton Point Light - 240.0°psc What is your position?	LAT 41°11.9'N, LONG 72°16.7'N	<b>LAT 41°12.6'N, LONG 72°17.2'W</b>	LAT 41°13.0'N, LONG 72°17.7'W	LAT 41°12.1'N, LONG 72°17.3'W
225	You are on course 242° per standard magnetic compass (psc) when you take the following bearings: Stratford Point Light 325°psc Old Field Point Light 239°psc Middle Ground Light 270°psc What is your position?	LAT 41°04.4'N, LONG 72°59.5'W	<b>LAT 41°05.1'N, LONG 72°59.3'W</b>	LAT 41°05.4'N, LONG 73°00.1'W	LAT 41°04.8'N, LONG 73°59.3'W
226					
227	You are on course 073° per standard magnetic compass when you take the following bearings: Watch Hill Point Light 037°psc Montauk Point Light 179°psc Race Rock Light 289°psc What is your position?	LAT 41°13.6'N, LONG 71°54.6'W	LAT 41°13.7'N, LONG 71°53.8'W	LAT 41°13.7'N, LONG 71°54.9'W	<b>LAT 41°13.8'N, LONG 71°54.3'W</b>
228	You are on course 298° per standard magnetic compass when you take the following bearings: Block Island Southeast Point Light - 058°psc Block Island Aero Beacon - 005°psc Montauk Point Light - 268°psc What is your position?	LAT 41°08.3'N, LONG 71°35.0'W	<b>LAT 41°08.2'N, LONG 71°34.4'W</b>	LAT 41°08.1'N, LONG 71°33.8'W	LAT 41°08.0'N, LONG 71°34.1'W

229	You are on course 282° per standard magnetic compass when you take the following bearings: Point Judith Light - 073°psc Block Island North Light - 156°psc Watch Hill Point Light - 293°psc What is your position?	<b>LAT 41°17.0'N, LONG 71°38.2'W</b>	LAT 41°17.1'N, LONG 71°39.1'W	LAT 41°17.2'N, LONG 71°38.7'W	LAT 41°17.2'N, LONG 71°37.8'W
230	You are on course 025° per standard magnetic compass when you take the following bearings: Point Judith Light - 072°psc Block Island North Point Light - 118°psc Watch Hill Light - 306°psc What s your position?)	LAT 41°14.9'N, LONG 71°43.2'W	LAT 41°15.1'N, LONG 71°44.0'W	<b>LAT 41°15.4'N, LONG 71°43.1'W</b>	LAT 41°15.6'N, LONG 71°42.8'W
231	You are on course 137° per standard magnetic compass when you take the following bearings: Watch Hill Point Light - 051°psc Montauk Point Light - 184°psc Race Rock Light - 279°psc What is your position?	<b>LAT 41°15.2'N, LONG 71°54.4'W</b>	LAT 41°15.1'N, LONG 71°53.8'W	LAT 41°15.1'N, LONG 71°54.9'W	LAT 41°15.0'N, LONG 71°53.7'W
232	You are on course 087° per standard magnetic compass when you take the following bearings: Little Gull Island Light 277°psc Race Rock Light 303°psc Latimer Reef Light 025°psc What is your position?	<b>LAT 41°13.1'N, LONG 71°57.5'W</b>	LAT 41°13.1'N, LONG 71°56.9'W	LAT 41°13.0'N, LONG 71°58.0'W	LAT 41°12.9'N, LONG 71°57.2'W
233	You are on course 053° per standard magnetic compass when you take the following bearings: Little Gull Island Light 275°psc Race Rock Light 296°psc Latimer Reef Light 011°psc What is your position?	LAT 41°12.9'N, LONG 71°56.3'W	<b>LAT 41°13.2'N, LONG 71°56.0'W</b>	LAT 41°13.4'N, LONG 71°55.5'W	LAT 41°13.8'N, LONG 71°56.1'W
234	You are on course 246° per standard magnetic compass when you take the following bearings: Little Gull Island Light 286° Race Rock Light 308° Latimer Reef Light 018°What is your position?	LAT 41°12.6'N, LONG 71°55.7'W	LAT 41°12.6'N, LONG 71°56.6'W	<b>LAT 41°12.7'N, LONG 71°56.0'W</b>	LAT 41°13.1'N, LONG 71°56.1'W
235	You are on course 302° per standard magnetic compass when you take the following bearings: Little Gull Island Light 283°psc Race Rock Light 311°psc Latimer Reef Light 027°psc What is your position?	LAT 41°12.2'N, LONG 71°57.6'W	LAT 41°12.4'N, LONG 71°57.4'W	LAT 41°12.4'N, LONG 71°57.9'W	<b>LAT 41°12.6'N, LONG 71°57.6'W</b>
236	You are on course 157° per standard magnetic compass when you take the following bearings: Little Gull Island Light 276°psc Race Rock Light 301°psc Latimer Reef Light 028°psc What is your position?	LAT 41°13.5'N, LONG 71°57.9'W	<b>LAT 41°13.5'N, LONG 71°57.4'W</b>	LAT 41°13.6'N, LONG 71°57.0'W	LAT 41°13.6'N, LONG 71°57.8'W
237					
238	Your 1302 position is LAT 37°14.7'N, LONG 76°22.7'W. You are turning for 9.6 knots. What is your ETA at Trestle C of the Chesapeake Bay Bridge and Tunnel if you follow York River Entrance Channel?	1516	<b>1505</b>	1500	1451
239	Your 1152 position is LAT 37°23.9'N, LONG 76°05.5'W. You are turning for 10.3 knots. What is your ETA at Trestle C of the Chesapeake Bay Bridge and Tunnel if you follow York Spit Channel?	<b>1404</b>	1349	1342	1339

240	Your 1312 position is LAT 37°10.9'N, LONG 75°29.6'W. You are turning for 8.3 knots. What is your ETA at LAT 37°21.9'N, LONG 75°42.6'W?	1449	1456	<b>1502</b>	1511
241	Your 1426 position is LAT 37°10.9'N, LONG 75°29.6'W. You are turning for 9.3 knots. What is your ETA at Chesapeake Light?	1616	1621	1626	<b>1633</b>
242	Your 0916 position is LAT 37°10.9'N, LONG 75°29.6'W. You are turning for 12.3 knots. What is your ETA at North Chesapeake Bay Entrance Buoy NCA?	1035	1043	<b>1051</b>	1101
243	At 0919 you are in Chesapeake Channel between Trestle B and Trestle C of the Chesapeake Bay Bridge and Tunnel. What is your ETA to a point between York Spit Channel Buoys "35" and "36" if you are making 11.3 knots and follow the buoyed channel?	1025	1028	1033	<b>1037</b>
244	At 0919 you are in Chesapeake Channel between Trestle B and Trestle C of the Chesapeake Bay Bridge and Tunnel. What is your ETA between York River Entrance Channel Buoys "17" and "18" if you are making 11.3 knots?	1034	1039	<b>1044</b>	1049
245	At 0914 you are in Chesapeake Channel between Trestle B and Trestle C of the Chesapeake Bay Bridge and Tunnel. What is your ETA at North Chesapeake Entrance Buoy NCA if you are making good 10.9 knots (Use the buoyed channel and appropriate sea lane)?	<b>1038</b>	1044	1049	1055
246	At 0919 you are inbound, approximately 3.3 miles east of Cape Henry with buoy "15" close aboard to port. What is your ETA between Trestle B and Trestle C of the Chesapeake Bay Bridge and Tunnel if you are making 11.3 knots?	1010	<b>1014</b>	1019	1025
247	At 0914 you are in Chesapeake Bay southeast inbound lane with buoy "CBJ" close aboard to port. What is your ETA at Thimble Shoal Channel Buoy "19" if you are making 10.9 knots?	1034	<b>1038</b>	1046	1042
248					
249	Your 2108 position is LAT 41°10.0'N, LONG 72°30.0'W. You are turning for 12.5 knots. What is your ETA at Buoy NH (LAT 41°12.1'N, LONG 72°53.8'W)?	2133	2227	<b>2235</b>	2248
250	At 1222 your position is LAT 41°05.5'N, LONG 72°47.3'W. You are making turns for 14.5 knots. What is your ETA at Twenty-Eight Foot Shoal Lighted Buoy (LAT 41°09.3'N, LONG 72°30.5'W)?	1309	<b>1317</b>	1321	1328



251	At 0829 your position is LAT 41°02.9'N, LONG 72°57.4'W. You are making turns for 8.5 knots. What is your ETA at a position midway between buoys "1" and "2" at the entrance of New Haven Outer Channel?	0925	0931	0938	<b>0944</b>
252	At 2102 your position is LAT 41°02.9'N, LONG 72°57.4'W. You are making turns for 16 knots. What is your ETA at a position 5 miles due south of Falkner Island Light?	2149	<b>2155</b>	2159	2204
253	At 1815 your position is LAT 41°05.5'N, LONG 72°47.3'W. You are making turns for 12.6 knots. What is your ETA at Plum Island Mid Channel Buoy PI (LAT 41°13.3'N, LONG 72°10.8'W)?	2019	2028	<b>2032</b>	2038
254	At 1715 your position is LAT 41°00.0'N, LONG 72°40.0'W. You are making turns for 15.5 knots. What is your ETA at a position 1.5 miles due south of Stratford Shoal Middle Ground Light?	1820	1824	1828	<b>1832</b>
255	Your 1600 position is LAT 41°08.0'N, LONG 72°44.8'W. You are making turns for 14 knots. What is your ETA at Mattituck Inlet?	1636	1643	<b>1647</b>	1651
256	Your 1600 position is LAT 41°08.0'N, LONG 72°44.8'W. You are making turns for 10 knots. What is your ETA at Twenty-Eight Foot Shoal Lighted Buoy "TE" (LAT 41°09.3'N LONG 72°30.5'W)?	1647	1651	1702	<b>1706</b>
257	Your 2215 position is LAT 41°05.4'N, LONG 72°59.4'W. You are making 15 knots. What is your ETA at Twenty-Eight Foot Shoal Lighted Buoy (LAT 41°09.3'N, LONG 72°30.5'W)?	2338	<b>2343</b>	2349	2354
258	Your 1830 position is LAT 41°05.4'N, LONG 72°59.4'W. You are making turns for 9 knots. What is your ETA at Mattituck Inlet?	<b>2044</b>	2052	2059	2106
259	Your 0620 position is LAT 40°59.5'N, LONG 73°00.5'W. You are making turns for 8 knots. What is your ETA at LAT 41°08.0'N, LONG 72°44.8'W?	0748	0802	<b>0809</b>	0814
260					
261	Your position is LAT 41°15.2'N, LONG 71°50.1'W at 1347. You are turning for 6.9 knots. What is your ETA at Shagwong Reef Buoy "7SR"?	<b>1506</b>	1515	1521	1527
262	At 1523 your position is LAT 41°08.2'N, LONG 71°34.4'W. You are turning for 8.7 knots. What is your ETA at Shagwong Reef Buoy "7SR"?	1653	1700	<b>1711</b>	1718
263	At 2330 your position is LAT 41°16.9'N, LONG 71°38.2'W. You are turning for 9.3 knots. What is your ETA at the entrance to Great Salt Pond on Block Island?	2355	<b>0005</b>	0012	0019

264	At 0943, your position is LAT 41°14.8'N, LONG 71°54.3'W. You are turning for 12.2 knots. What is your ETA at the entrance to Great Salt Pond on Block Island?	1054	1048	1040	1032
265	At 0242 your position is LAT 41°16.8'N, LONG 71°39.9'W. You are turning for 9.3 knots. What is your ETA at the West Gap of Pt. Judith Harbor of Refuge?	0319	0325	0329	0336
266	At 1048 you are in the entrance to Great Salt Pond on Block Island with buoy "5" close aboard. What is your ETA at the west gap of Point Judith Harbor of Refuge if you make good 8.3 knots?	1149	1154	1158	1203
267	At 1048 you are in the entrance to Great Salt Pond on Block Island with buoy "5" close aboard. What is your ETA at the west gap of Point Judith Harbor of Refuge if you make good 11.3 knots?	1144	1154	1159	1205
268	At 1103 your position is LAT 41°12.5 N, LONG 71°37.4 W. What is your ETA at the west gap of Point Judith Harbor of Refuge if you make good 11.3 knots?	1144	1154	1159	1205
269	At 1103 you are in the entrance to Great Salt Pond on Block Island with buoy "5" close aboard. What is your ETA at light "1" at the mouth of the approaches to Lake Montauk if you make good 8.2 knots?	1249	1254	1259	1310
270	At 1113 you are in the entrance to Great Salt Pond on Block Island with buoy "5" close aboard. What is your ETA at light "1" at the mouth of the approaches to Lake Montauk if you make good 9.6 knots?	1310	1301	1254	1249
271					
272	The soundings on this chart are measured in _____.	feet	yards	fathoms	meters
273	The approach channel to the town of Cape Charles (LAT 37°16'N, LONG 76°01'W) has what controlling depth?	9 feet	17 feet	20 feet	40 feet
274	The shoal spanned by Trestle B of the Chesapeake Bay Bridge and Tunnel is _____.	Chesapeake shoal	the Middle ground	Lynnhaven roads	the Tail of the Horseshoe
275	You are considering anchoring approximately three miles northeast of Chesapeake Light. After examining the chart you decide not to because of the _____.	large number of wrecks	coral being designated as a special protected area	danger of unexploded mines	area being designated as a National Marine Sanctuary
276	What are the bottom characteristics of Nautilus Shoal (LAT 37°03'N, LONG 75°56'W)?	Sand and shells	Hard sand	Fine gray sand	Mud and sand
277	In the northern quadrant of the circle surrounding Chesapeake Bay Entrance Junction Buoy CBJ the number 20 over a bracket appears 5 times. What do these indicate?	Markers or piles are 20 feet above mean low water.	The maximum draft permitted in this area is 20 feet.	Obstructions have been cleared by a wire drag to 20 feet.	Bench marks used to measure channel depths while dredging.

278	The soundings on the chart are based on the depth of water available at _____.	mean low water	<b>mean lower low water</b>	mean high water	mean high water springs
279	You are navigating 1 mile north of Cape Henry Lighthouse at the southern entrance to Chesapeake Bay. You observe that this area is bounded on the chart by magenta bands. This indicates a(n) _____.	fish trap area	explosive anchorage	<b>pilotage area</b>	danger zone
280	What type of bottom can be expected at the northern end of York Spit Channel?	Hard clay	Fine gray sand	Soft black mud	<b>Mud and sand</b>
281					
282	You are going to anchor at Gardiners Bay in LAT 41°04.5'N, LONG 72°13.0'W. What type of bottom should you expect?	Streaked mud	Sand	Hard rocks	<b>Soft mud</b>
283	You are planning to anchor in Orient Harbor at LAT 41°07.9'N, LONG 72°18.5'W. Assuming that normal conditions exist, how much anchor cable should you put out?	16 to 18 feet	40 to 60 feet	<b>80 to 112 feet</b>	120 to 140 feet
284	You are planning to anchor in Orient Harbor at LAT 41°07.9'N, LONG 72°18.5'W. What type of bottom should you expect?	Sticky	<b>Soft</b>	Stiff	Streaky
285	Your vessel has become disabled and is dead in the water. Your GPS set fixes your position at LAT 41°12.1'N, LONG 72°43.5'W. You decide to anchor at this position. Which type of bottom should you expect?	Soft clay and sand	<b>Soft mud and shell</b>	Hard sand and rocks	Blue mud and gray sand
286	Your vessel has become disabled and is dead in the water. Your GPS position is LAT 41°12.1'N, LONG 72°43.5'W. You decide to anchor at this position. Under normal conditions, how much anchor chain should you expect to put out?	80 to 190 feet	190 to 240 feet	<b>245 to 343 feet</b>	345 to 420 feet
287	At 0400 your vessel is dead in the water and in heavy fog. Your GPS position is LAT 41°12.1'N, LONG 72°43.5'W. Bottom samples are taken and indicate a composition of soft mud and shell. Your fathometer reads 40 feet. If the vessel draws 9 feet of water, which of the following is TRUE?	<b>The bottom samples and fathometer reading prove the fix is reliable.</b>	The bottom samples and fathometer readings indicate that the fix is unreliable.	The information collected indicates that the fathometer may be in error.	The information collected indicates that the chart is most likely in error.
288	You are planning to anchor your vessel at LAT 41°01.1'N, LONG 73°02.8'W. What type of bottom should you expect at this position?	Gray sand	Soft mud	<b>Gray mud</b>	Hard sand
289	Your position is LAT 41°03.0'N, LONG 72°42.1'W. If your draft is 8 ft, what should your fathometer read at this position?	<b>80 ft</b>	88 ft	96 ft	99 ft
290	You plan to anchor your vessel at LAT 41°00.5'N, LONG 73°02.8'W. What type of bottom should you expect at this position?	Gray sand	<b>Soft mud</b>	Hard sand	Gray mud

291	You plan to anchor your vessel at LAT 41°05.1'N, LONG 72°59.3'W. Assuming that normal conditions exist, how much anchor cable should you put out?	150 to 300 feet	300 to 440 feet	<b>440 to 600 feet</b>	640 to 750 feet
292					
293	The soundings on this chart are measured in _____.	<b>feet</b>	yards	meters	fathoms
294	What type of bottom is found off the southern coast of Long Island?	Blue Mud	Shingle	<b>Brown Sand</b>	Shells
295	The four soundings in the vicinity of LAT 41°12.2'N, LONG 71°33.0'W, that are underlined with a bracket indicate _____.	that no bottom was found at the sounding depth indicated	a submerged rock not dangerous to surface navigation	the height a rock uncovers at low water springs	<b>a submerged danger that is cleared to the indicated depth by a wire drag</b>
296	You are proceeding from a point 4 miles due east of Montauk Point enroute to Long Island Sound via The Race. You should expect the soundings to _____.	remain fairly constant	increase rapidly at first then remain constant until through the Race	<b>start increasing when north of Montauk Point</b>	be inaccurate due to sound absorption by the mud bottom
297	A vessel anchoring in the middle of Cherry Harbor, 1 mile off Gardiner's Island, will find what type of bottom?	Rocky	Shells	<b>Mud</b>	Silt
298	What soundings are indicated by a blue tint on this chart?	30 fathoms or more	<b>30 feet or less</b>	30 feet or more	30 fathoms or less
299	The broken magenta lines starting at Montauk Point and running generally ENE to Block Island indicate _____.	recommended tracks to Block Island	<b>a submerged cable area</b>	a military exercise area	demarcation lines for application of the COLREGS
300	Areas enclosed by a long and short dashed magenta line indicate _____.	cable areas	dumping grounds	<b>fish trap areas</b>	precautionary areas
301	The bottom approximately three miles to the ESE of Block Island Southeast Point has _____.	<b>gravel</b>	shale	stones	grit
302	Sounding contours in unshaded water areas are at what interval?	10 foot up to 100 ft depths then at 30 foot intervals	<b>30 foot intervals</b>	10 fathom intervals	The interval will vary to ensure any major underwater hazard is highlighted.
303	Sounding contours in unshaded water areas are at what interval?	10 foot up to 100 ft depths then at 30 foot intervals	<b>30 foot intervals up to 180 feet</b>	10 fathom intervals	The interval will vary to ensure any major underwater hazard is highlighted.
304					
305	Local magnetic disturbances of up to how many degrees have been noted from Cape Henry to Currituck Beach Light?	2 degrees	<b>6 degrees</b>	11 degrees	17 degrees
306	Why are there no buoys charted at the approach to Sand Shoal Inlet (LAT 37°16'N, LONG 75°46'W)?	No buoys are stationed there.	They frequently shift position due to heavy weather.	<b>They are frequently shifted to conform to the changing channel.</b>	The buoys are being replaced with fixed lights.

307	What chart should you use in Lynnhaven Bay (west of Cape Henry)?	12221	12256	12205	<b>12254</b>
308	NOAA weather broadcasts can be received on what frequency while navigating off Cape Henry?	162.45 MHz	<b>162.55 MHz</b>	162.65 MHz	162.70 MHz
309	The broken magenta lines (long and short dashes) in and around Mobjack Bay (LAT 37°20'N, LONG 76°22'W) indicate _____.	amphibious training areas	grounds for dredge spoil	<b>fish trap areas</b>	gunnery exercise areas
310	What is the horizontal clearance of the navigation opening of Trestle B of the Chesapeake Bay Bridge and Tunnel?	21 feet	<b>70 feet</b>	75 feet	300 feet
311	The level of mean high water at Old Point Comfort is how many feet above the sounding datum?	1.5 feet	2.2 feet	<b>2.5 feet</b>	3.5 feet
312	A note on the chart indicates that currents in excess of how many knots can be expected in the vicinity of the Chesapeake Bay Bridge and Tunnel?	<b>3.00 knots</b>	2.20 knots	1.75 knots	1.50 knots
313	Anchorage regulations for this area may be obtained from _____.	<b>Office of the Commander 5th Coast Guard District</b>	Commanding General, Corps of Engineers, Washington, DC	Virginia - Maryland Pilots Association	Chesapeake Bay Port Authority, Hampton, VA
314	Anchorage regulations for this area may be obtained from _____.	Commanding General, Corps of Engineers, Washington, D.C.	<b>Office of the Commander 5th Coast Guard District</b>	Virginia - Maryland Pilots Association	Chesapeake Bay Port Authority, Hampton VA
315	Anchorage regulations for this area may be obtained from _____.	Chesapeake Bay Port Authority, Hampton VA	Virginia - Maryland Pilots Association	<b>Office of the Commander 5th Coast Guard District</b>	Commanding General, Corps of Engineers, Washington, D.C.
316	In addition to those found in the Coast Pilot, information concerning anchorage regulations for this area may be obtained from _____.	Chesapeake Bay Port Authority, Hampton VA	Virginia - Maryland Pilots Association	Commanding General, Corps of Engineers, Washington, D.C.	<b>Office of the Commander 5th Coast Guard District</b>
317	Anchorage regulations for this area may be obtained from _____.	Office of Commander 2nd Coast Guard District	<b>District Engineer, Corps of Engineers, Norfolk, VA</b>	Virginia - Maryland Pilots Association	Chesapeake Bay Port Authority, Hampton VA
318					
319	You are operating in the area approximately 2 miles southeast of Kelsey Point when you realize that your vessel's intended track will carry you over the wreck charted at LAT 41°13.5'N, LONG 72°29.6'W. Which statement is TRUE?	The chart indicates the exact position of the wreck.	The wreck has been cleared by wire drag to a depth of 39 ft.	<b>The wreck represents a danger to surface navigation.</b>	The wreck is visible above the sounding datum.
320	Which chart would you use for more detailed information on the Connecticut River?	12354	12370	12371	<b>12375</b>
321	NOAA Weather Broadcasts for the New London area may be received by turning your radio to _____.	<b>162.550 MHz</b>	162.475 MHz	162.400 MHz	162.350 MHz

322	What is the significance of the broken magenta lines which roughly parallel the shore between Roanoke Point and Orient Point on Long Island?	They mark the limits of breakers in that area.	These lines warn the mariner of submerged rocks.	<b>They mark the boundary lines of fish trap areas.</b>	These lines warn the mariner of submerged pipelines.
323	What is the danger associated with anchoring your vessel within a 300 yard radius of Gardiners Point?	An unusually strong current exists in this area.	The bottom is not suitable for holding the anchor.	Submerged pilings may exist in this area.	<b>Your anchor could become fouled on undetonated explosives.</b>
324	The chart symbol surrounding Saybrook Breakwater Light warns mariners that the navigational light structure is _____.	no longer maintained	<b>protected by riprap</b>	privately maintained	awash at high tide
325	The chart symbol depicted at LAT 40°58.5'N, LONG 72°43.4'W indicates a(n) _____.	abandoned lighthouse	light ship	wreck with only its mast visible	<b>wreck showing a portion of the hull above the sounding datum</b>
326	The chart symbol depicted at LAT 41°13.5'N, LONG 72°29.7'W indicates _____.	the exact position of a dangerous wreck	<b>the approximate position of a wreck dangerous to surface navigation</b>	a wreck cleared by wire drag to a depth of 39 feet	a wreck not dangerous to surface navigation
327	Which chart, of the same scale, continues eastward from this chart?	<b>13205</b>	13212	13214	13216
328	Which chart would you use if you planned to continue westward beyond the coverage of this chart?	<b>12363</b>	12373	13205	13218
329					
330	The trapezoidal shaped areas enclosed by a thin broken magenta line and located along the south coast of Long Island are _____.	designated training areas for Navy amphibious craft	disposal areas for unexploded munitions	<b>fish trap areas</b>	anchorage areas for small craft
331	The precautionary area southeast of Block Island refers to a _____.	<b>recommended traffic lane</b>	military exercise area	national marine refuge	dumping ground for hazardous wastes
332	A vessel enroute to Long Island Sound from sea will enter waters governed by the Inland Rules of the Road _____.	when crossing the Territorial Sea boundary	between Montauk Point and Block Island	when north of latitude 41°10.0'N	<b>when passing through The Race</b>
333	On the south and the east coasts of Block Island are circles with a dot in the center and labeled CUP. This is a _____.	conspicuous object	steep depression in the surrounding hills that resembles a cup	<b>domed structure useful for navigation</b>	calling-up-point used for traffic control
334	The Ruins (LAT 41°08.5'N, LONG 72°08.8'W) is _____.	a classic example of 18th century military fortifications	in an area of unpredictable, treacherous currents	restricted to surface navigation due to fishery conservation projects nearby	<b>prohibited to the public</b>

335	When approaching Block Island Sound from Long Island Sound, you will enter waters governed by the International Rules of the Road when you _____.	<b>pass through The Race</b>	cross the territorial sea boundary	exit Block Island Sound to the east or south	None of the above, as Long Island Sound is governed by the International Rules of the Road
336	Montauk Point Light is 168 feet above what reference level?	Mean low water	Mean tide level	Ground level	<b>Mean high water</b>
337	The irregular black line around a charted light such as Race Rock Light indicates that it is _____.	unwatched	<b>surrounded by riprap</b>	a minor light	constructed on an artificial island
338	Your position is LAT 41°12.4'N, LONG 71°53.2'W. You are on course 163°T enroute to sea. If you maintain this course and your speed is 10 knots, the bearing and range to Montauk Point Light when abeam, is _____.	073 °T, 1.1 miles	<b>253 °T, 1.2 miles</b>	073 °T, 1.4 miles	253 °T, 1.5 miles
339					
340	At 0800 your vessel is at mile 110 on the Columbia River. You are steaming in an easterly direction. At 0854 Lady Island Range is in line dead astern and Government Island Upper Range is in line on your port quarter. What speed have you averaged?	8.1 mph	8.5 mph	<b>9.4 mph</b>	10.2 mph
341	At 1745 Lady Island Range is in line dead ahead and Government Island Upper Range is in line on your starboard bow. Your vessel is steaming in a westerly direction. At 1851 you pass under the Interstate 5 highway bridge. What speed have you averaged?	10 mph	<b>11 mph</b>	12 mph	13 mph
342	At 1630 your vessel exits Bonneville Lock steaming in a westerly direction. What speed must you average to arrive at the Interstate 5 highway bridge with an ETA of 2120?	6 mph	7 mph	<b>8 mph</b>	9 mph
343	At 1430 your vessel passes under the Interstate 5 highway bridge east bound. Your engines are making RPM's for 12 mph. If the current is ebbing at 3 mph, what is your ETA at Bonneville Lock?	1744	1753	1834	<b>1848</b>
344	At 1745 Lady Island Upper Range is in line dead astern and Washougal Lower Range is in line on the starboard bow. You are steaming in an easterly direction. What speed must you average to arrive abeam of Cape Horn Light No. 67 at 1839?	9.3 mph	9.8 mph	<b>10.2 mph</b>	10.8 mph
345					
346	Your vessel is awaiting lockage at Bonneville Lock. The staff gauge on the guide wall reads 18'-06". What is the maximum vessel draft allowed to enter the lock?	17'-00"	<b>17'-06"</b>	18'-00"	18'-06"
347	What signal is given by air horn to indicate that Bonneville Lock is ready for entrance?	two long blasts	two short blasts	one short blast	<b>one long blast</b>

348	You are approaching Bonneville Lock and Dam and desire lockage. Which call sign should you use to contact the lock?	WUJ 33	WUJ 34	WUJ 41	WUJ 45
349	You are approaching Bonneville Lock and Dam. Which FM-radio channel should be used to communicate with the lockmaster?	13	14	15	16
350					
351	What is the length of the city wharf at The Dalles on the Columbia River?	20 feet	over 1000 feet	800 feet	600 feet
352	At what scheduled time can the draw of the Burlington Northern railroad bridge, across the Columbia River, at mile 328.0 be opened on signal without prior notice?	6:00 am to 6:00 pm	6:00 pm to 6:00 am	8:00 pm to 4:00 am	8:00 am to 4:00 pm
353	What is the minimum clearance for the bridge across the entrance to the Wind River at Home Valley, WA.?	14 feet	26 feet	34 feet	38 feet
354	What is the vertical clearance of the fixed bridge across the entrance to Rock Creek at Stevenson, Washington?	19 feet	36 feet	54 feet	70 feet
355	The mooring float at Beacon Rock State Park is restricted to pleasure boats, what is the maximum duration of mooring in the state park?	1 night	2 nights	5 nights	7 nights
356					
357	What is the height above the water of Government Island Upper Range, lower light?	35 feet	24 feet	38 feet	42 feet
358	What are the characteristics of Washougal Light on the Columbia River?	Equal interval green, 6 seconds	Quick flashing red, 2 seconds	Flashing green, 4 seconds	Flashing red, 2.5 seconds
359	What are the characteristics of the upper light of Government Island Lower Range, on the Columbia River?	Isophase red, 6 seconds	Green group flashing, 6 seconds	Quick flashing red, 6 seconds	Isophase green, 6 seconds
360	What is the height above the water of light No. 84 on the Columbia River below Bonneville lock & dam?	10 feet	4 feet	14 feet	24 feet
361	What is a characteristic of light No. "68A" on the Columbia River below Bonneville Lock?	The light shows an isophase characteristic.	The light is 3 meters above the water.	The light is equipped with a radar reflector.	The light is green in color.
362					
363	You are underway and steaming in an easterly direction on the Columbia River. Your vessel is positioned in the middle half of Cape Horn Channel and is abeam of Cape Horn Light. What should your fathometer read at this position, if the staff gauge at Portland reads 0 feet and your draft is 9 feet?	16 feet	18 feet	23 feet	24 feet



364	You are underway and proceeding in an easterly direction on the Columbia River. Your vessel is positioned in the right outside quarter of McGowans Channel and is abeam of light No. 88. What should your fathometer read at this position, if the staff gauge at Portland reads + 15.0 feet and your draft is 9 feet?	22 feet	52 feet	43 feet	<b>31 feet</b>
365	You are underway and steaming in an easterly direction on the Columbia River. After bringing Fisher Quarry Channel Range in line over your bow, you move to the left outside quarter of the channel. What should your fathometer read at this position, if the staff gauge at Portland reads +12.5 feet and your draft is 9 feet?	7.5 feet	<b>29.5 feet</b>	41.5 feet	51.5 feet
366	You are underway and proceeding in an easterly direction on the Columbia River. You position your vessel in the middle of the channel and bring Government Island Lower Range in line over your bow. What should your fathometer read at this position, if the staff gauge at Portland reads 10.0 feet and your draft is 9 feet?	<b>18 feet</b>	24 feet	28 feet	31 feet
367					
368	Your vessel is westbound in the Tomahawk Bar Channel approaching the Interstate Highway Bridge. The water level is 15.0 feet above the Columbia River Datum. Your vessel profile indicates the distance from the keel to the highest point is 72.25 feet and your draft is 9.5 feet. What will be the vertical clearance passing under the bridge in the raised position?	72.25 feet	81.25 feet	90.75 feet	<b>100.25 feet</b>
369	Your vessel is westbound approaching the Interstate Highway Bridge in the Tomahawk Bar Channel. The water level is 3.0 feet above the Columbia River Datum. Your vessel profile indicates the distance from the keel to the highest point is 49.75 feet and your draft is 9.5 feet. What will be the vertical clearance passing under the bridge in the raised position?	115.75 feet	121.75 feet	<b>134.75 feet</b>	137.75 feet
370	Your vessel is approaching the Interstate Highway Bridge in the Alternate Barge Channel. The water level is 3.0 feet below the Columbia River Datum. Your vessel profile indicates the distance from the keel to the highest point is 49.75 feet and your draft is 9.5 feet. Your tow has an air draft of 41.25 feet. What is the minimal vertical clearance you will encounter while passing under the bridge?	<b>33.75 feet</b>	34.75 feet	39.75 feet	40.75 feet

371	Your vessel is approaching the Interstate Highway Bridge in the Alternate Barge Channel. The water level is 2.0 feet above the Columbia River Datum. Your vessel has an air draft of 55.5 feet and your draft is 9.5 feet. What is the minimal vertical clearance you will encounter while passing under the bridge?	9.0 feet	<b>14.5 feet</b>	18.5 feet	26.0 feet
372	Your vessel is approaching the Interstate Highway Bridge in the Barge Channel. The water level is 1.5 feet above the Columbia River Datum. Your vessel has an air draft of 43.5 feet and your draft is 9.5 feet. What is the minimal vertical clearance if you are in the center span while passing under the bridge?	23.5 feet	20.5 feet	11 feet	<b>13 feet</b>
373	Your vessel is at mile marker 120 and has an air draft of 52.5 feet. The water level is 4.3 feet above Columbia River Datum. What will the vertical clearance be when your vessel passes under the North Channel Overhead Power Cables?	<b>76.2 feet</b>	80.5 feet	84.8 feet	93.2 feet
374					
375	What is the length of The Bonneville Dam Lock on the Columbia River?	475 feet	500 feet	<b>675 feet</b>	1200 feet
376	Where would you look for information on the restricted areas shown on the chart immediately above and below the spillway at The Dalles Lock & Dam ?	Light List - Vol II	<b>Coast Pilot 7 - Chapter 2</b>	Notice to Mariners	Sailing directions
377	Where would you tune your radio to receive a VHF-FM weather broadcast for the Columbia River in the vicinity of Government Island?	KIH-32 - 162.40 MHz	KBA-99 - 162.40 MHz	<b>KIG-98 - 162.55 MHz</b>	KEC-62 - 162.55 MHz
378	Clearances of bridges and overhead cables below Bonneville Dam refer to heights in feet above mean _____.	<b>lower low water</b>	high water	low water	sea level
379	Contour elevations on this chart refer to heights in feet above mean _____.	lower low water	high water	low water	<b>sea level</b>
380					
381	How many nautical miles are between mile 105 and mile 234 on the Columbia River?	<b>112.1</b>	119.5	129.0	148.4
382	How many nautical miles are between mile 44 and mile 163 on the Columbia River?	98.6	<b>103.4</b>	119.5	136.9
383	At 2200 your vessel is at mile 95 proceeding in an easterly direction on the Columbia River. At 0400 the following morning, you pass the 125 mile mark. How many nautical miles have you traveled since 2200?	22.6	24.3	<b>26.1</b>	34.5
384	At 0800 your vessel is at mile 110 proceeding in an easterly direction on the Columbia River. At 1030 Reed Island is abeam to port as you pass the 125 mile mark. What has been your average speed in knots?	4.3 knots	<b>5.2 knots</b>	8.7 knots	10.0 knots

385	At 0800 your vessel is at mile 110 on the Columbia River. Thirty minutes later your vessel is at mile 115. What is your speed in knots?	4.3 knots	5.7 knots	7.8 knots	<b>8.7 knots</b>
386	The following questions are to be answered using chart 12221 TR, Chesapeake Bay Entrance, and supporting publications. Your vessel is enroute from New York, NY, to Baltimore, Your vessel's draft is 29 feet, and your height ye is 54 feet. Your present course is 206°T and your speed is 18 knots. Use 10°W variation where required.				
387	At 0705 your position is Latitude 37° 20.8' N Longitude 75° 29.9' W. If a northwesterly breeze is causing 3 degrees leeway what is the true course to steer in order to pass Hog Island Lighted Bell Buoy "12" at a distance abeam of two miles?	212 ° T	<b>209 ° T</b>	206 ° T	203 ° T
388	At 0725 you determined your vessel's position to be 37°15.5'N, 75°33.2'W. Assuming that you make good your course of 206° true and a speed of 18 knots, at what time would you expect to be abeam of Cape Charles Lighted Bell Buoy "14"?	0750	0754	<b>0758</b>	0802
389	At about what time will you see Chesapeake Light if visibility is exceptionally clear?	<b>0729</b>	0733	0738	0742
390	At 0741 you are still steering a course of 206° true, with a speed of 18 knots. At this time you observe Cape Charles Lighted Bell Buoy "14" bearing 222° true and Hog Island Lighted Bell Buoy "12" bearing 015° true . What were the set and drift experienced since 0725?	<b>259°true at 3.2 knots</b>	049°true at 2.5 knots	240° true at 1.9 knots	042°true at 3.3 knots
391	From your 0741 position, you wish to change course in order to pass 2.2 miles easterly of Cape Charles Lighted Bell Buoy "14". Your engine speed is now 14.0 knots. You estimate the current to be 240° true at 1.8 knots. What is the true course to steer to make good the desired course?	179°true	185°true	<b>190° true</b>	197°true
392	At 0811 your vessel's position is 37°04.9'N, 75°39.7'W. You are steering a course of 220° true at a speed of 14.0 knots. At what time would you expect the buoys in the northeasterly traffic scheme to line up, if you do not correct for a southwesterly current of 1.8 knots?	0826	0831	<b>0841</b>	0846
393	At 0841 Chesapeake Light bears 164° true, Cape Charles Light bears 312° true, and Cape Henry Light bears 247° true. What was your course made good since 0811?	<b>226°true</b>	230°true	233° true	237°true
394	From your 0841 position, you are steering a course of 241° true to the northeasterly inbound channel entrance, your speed is now 15 knots. What is your ETA abeam of buoy "NCA" (LL#375)?	0850	<b>0855</b>	0901	0911

395	As you pass through the Chesapeake Bay Bridge and Tunnel, you take a bearing of 047°pgc along trestle C when it is in line. The helmsman reports the vessel's heading as 316° pgc and 329°psc. What is the deviation on that heading?	3°E	1°E	1°W	9°W
396	The following questions are to be answered using chart 12354 TR, Long Island Sound - Eastern Part, and supporting publications. Your vessel is enroute to New Haven, CT. You are proceeding at a reduced speed of 9.8 knots on a course of 243°T. Your height of eye is 45 feet and your vessel's deep draft is 33 feet.				
397	At 0930 you obtain a position from the following information: Race Rock Light bears 110°T at a range of 1.4 miles, and Goshen Point bears 330°T at a range of 3.3 miles. What are your present latitude and longitude?	41°16.0'N, 72°09.5'W	41°15.1'N, 72°04.6'W	41°17.4'N, 72°06.0'W	41°14.6'N, 72°03.0'W
398	At 1000 buoy "PI" is abeam to starboard a distance of 0.5 mile. From this position, with a set of 295° and a drift of 1.6 knots, what course must you steer to arrive at a point with Buoy "TE" one mile abeam to starboard?	247°T	249°T	251°T	253°T
399	At 1130, Horton Point Light bears 172° true at a range of 3.45nm  The fathometer reads 81 ft. Your position is _____.	north of your intended track line	41°09.4'N, 72°22.6'W	three miles southeast of Six Mile Reef Buoy "8A"	41°08.5'N, 72°27.3'W
400	At 1155 your vessel's position is LAT 41°09.0'N, LONG 72°34.4'W. If you make good a course of 282°T and a speed of 10.0 knots, when will you arrive at New Haven Harbor Lighted Whistle Buoy "NH"?	1315	1320	1325	1330
401	From your 1155 position, you steer a course of 282°T at a speed of 9.5 knots. You obtain the following bearings:  1205: Falkner Island Light bears 318°T 1225: Falkner Island Light bears 355°T  Your 1225 running fix is _____.	north of your intended track	3.1 miles SSW of Falkner Island Light	ahead of the DR position	south of your intended track
402	At 1245 the GPS shows your position to be LAT 41°10.3'N, LONG 72°44.2'W. You are steering a course of 284°T at an engine speed of 13.0 knots. At what time would you expect the New Haven Harbor Outer Range to be in line if you have a current setting 112°T at 1.2 knots?	1318	1323	1328	1343

403	At the time of your 1245 position, which statement is TRUE?	<b>Your fathometer should indicate a reading of approximately 47 feet.</b>	Bradford Reef is 5.7 miles on the starboard bow.	You are in a danger area.	You must follow the International Rules of the Road.
404	After departing the New Haven terminals, your 1800 position puts the New Haven Harbor Lighted Bell Buoy "NH" bearing 130°T at a range of 0.2 mile. From this position you set a course to leave Stratford Shoal Middle Ground Light 1.0 mile off your starboard beam. Your speed is 12.5 knots. At 1845 you determine your position to be LAT 41°05.5'N, LONG 73°03.1'W. What were the set and drift of the current?	294°T at 0.5 knot	<b>294°T at 0.8 knot</b>	114°T at 0.5 knot	114°T at 0.8 knot
405	From your 1845 position, you desire to leave Stratford Shoal Middle Ground Light 1.0 mile off your starboard beam at 1900. Which course and speed would you order if you allow for a 2.0 knot current with a set of 180°T?	205°T at 9.2 knots	208°T at 11.4 knots	<b>215°T at 9.2 knots</b>	225°T at 11.5 knots
406	The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. Your vessel is on a course of 090°T with a speed of 14 knots. Your draft is 37 feet and your height of eye is 56 feet.				
407	At 1705 Race Rock Light bears 099°True; Orient Point Light bears 176°True; Bartlett Reef Light bears 083°True. What is your vessel's position?	LAT 41°15.0'N, LONG 72°14.3'W	LAT 41°15.4'N, LONG 72°16.6'W	<b>LAT 41°15.9'N, LONG 72°14.0'W</b>	LAT 41°16.4'N, LONG 72°14.2'W
408	If there is no set or drift, at what time would you be abeam of Bartlett Reef Light?	1719	<b>1724</b>	1729	1734
409	At 1718, Bartlett Reef Light bears 050°T at a distance of 1.5 miles. From this position, you change course to 128°T. At 1750 Race Rock Light bears 336°T, Little Gull Island Light bears 285°T, and Montauk Point Light bears 134°T. What were the set and drift of the current you encountered since 1718?	245°T at 0.9 knots	245°T at 1.7 knots	<b>065°T at 1.7 knots</b>	065°T at 0.9 knots
410	If your fathometer is set on fathoms, what should your fathometer read at 1750?	<b>8.5 fathoms</b>	10.2 fathoms	14.7 fathoms	51.0 fathoms
411	At 1756 you determined your vessel's position to be 41°10.4'N, 71°59.2'W. From this position, you wish to change course to head for a point 5 miles west of Block Island North Light. With a reported set of 050°T, a drift of 2.0 knots and turning RPM's for 14 knots, which course should you steer to make good your desired course?	070°T	075°T	<b>080°T</b>	085°T

412	At 1844 Watch Hill Point bears 323° true and Block Island North Light bears 084° true  Which statement is TRUE?	Your fathometer reads 97 feet	You are governed by the Inland Rules of the Road.	You are to the left (north) of your desired course line.	<b>Your vessel is approximately 8.7 miles off Sandy Point.</b>																
413	From your 1850 position of 41°12.8'N, 71°44.1'W, you change course to 060°T. If you make the course good, what will be your predicted distance off Point Judith Light when the Light bears 015°T?	1.2 miles	1.9 miles	<b>2.7 miles</b>	3.4 miles																
414	You are making good a course of 060°T at a speed of 13.5 knots. At 1855 Block Island North Light bears 086°T; at 1910 Block Island North Light bears 108°T; and at 1930 the same light bears 184°T. Which statement is TRUE about your 1930 running fix position?	<b>You are on the edge of a cable area.</b>	The bottom is mud, sand, and clay.	The wavy magenta lines to the north through east of your position are designated lobstering areas.	You are inside the 120 fathom curve																
415	At 1942 Point Judith bears 030°T and has a range of 3.6 miles and Sandy Point has a range of 5.3 miles. What was your speed made good from your 1850 position?	12.5 knots	<b>13.0 knots</b>	13.5 knots	14.0 knots																
416	<p>The following questions are to be answered using chart 12221 TR, Chesapeake Bay Entrance, and supporting publications. It is July 13th and you are on a voyage to Baltimore. You are observing daylight savings time. You are turning for 9.8 knots. The maximum draft is 18 feet. The gyro error is 2°E. The visibility is obscured by patchy fog. Use 10°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HEADING</th> <th>DEVIATION</th> </tr> <tr> <th>MAGNETIC</th> <th></th> </tr> </thead> <tbody> <tr> <td>315°</td> <td>1.0°W</td> </tr> <tr> <td>330°</td> <td>0.5°W</td> </tr> <tr> <td>345°</td> <td>0.5°E</td> </tr> <tr> <td>000°</td> <td>2.0°E</td> </tr> <tr> <td>015°</td> <td>3.0°E</td> </tr> <tr> <td>030°</td> <td>1.5°E</td> </tr> </tbody> </table>					HEADING	DEVIATION	MAGNETIC		315°	1.0°W	330°	0.5°W	345°	0.5°E	000°	2.0°E	015°	3.0°E	030°	1.5°E
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417	At 2038 you are on course 272°T when Chesapeake Light is bearing 348° true at a range of 5.3 nm  Based on this fix, which statement is TRUE?	<b>You are inside a ten fathom depth curve.</b>	You are less than five miles from Chesapeake Light.	You are 0.6 mile north of a wreck.	You are inside the contiguous zone.																
418	You are proceeding towards the inbound lane of the Chesapeake Bay entrance deep water route. What is your ETA to abeam of the "CB" Buoy?	<b>2058</b>	2104	2109	2115																

419	Your ETA at Chesapeake Bay Bridge and Tunnel between trestles B + C is 2300. If your engine speed is 9.8 knots, what will be your approximate speed over the ground, at that time, allowing for the predicted current?	7.0 knots	8.2 knots	11.4 knots	<b>12.5 knots</b>															
420	At buoy "CB" you change course to follow the inbound traffic lane. What is the course to steer per gyro compass if you correct your heading for a current of 315° at 1.0 knot and allow 3° leeway for northeasterly winds?	297°pgc	299°pgc	<b>302°pgc</b>	305°pgc															
421	At 2216 CBJ Buoy is close abeam to port. Your lookout reports several sound signals with their relative bearings. Which would you judge to be coming from a vessel?	A bell, broad on the port bow	<b>A whistle, broad on the starboard beam</b>	A bell, dead ahead	A gong, two points on the starboard quarter															
422	As you enter Chesapeake Bay, visibility improves. At 2235 you are between Chesapeake Channel Buoys "5" and "6" in the 41 foot dredged section of Chesapeake Channel. At that time, you change course to pass between buoys "9" and "10". If buoys "11" and "12" are extinguished, your best leading light to keep you in deep water in the Chesapeake Channel, as you approach the Chesapeake Bay Bridge and Tunnel, would be _____.	fixed red light on trestle "C"	<b>fixed green light on trestle "B"</b>	fixed red light on trestle "B"	Thimble Shoal Light															
423	At 2306, as you pass through Trestle "C", you take a gyro bearing of the trestle when it is in line. The bearing is 049.0°. What is the gyro error?	<b>0°</b>	1.5°E	1.0°W	2.5°W															
424	As you proceed up York Spit Channel, what are the three base courses that you must steer to conform to the channel, if steering by standard magnetic compass?	337.5°, 359.5°, 028.0°	337.5°, 357.5°, 026.0°	324.0°, 352.5°, 009.5°	<b>340.0°, 000.5°, 025.0°</b>															
425	You are abeam of buoy "18" at 2325. What is your ETA at Baltimore if you average 9.5 knots?	1342	<b>1400</b>	1424	1456															
426	<p>The following questions are to be answered using chart 12354 TR, Long Island Sound - Eastern Part, and supporting publications. You are turning for 12.7 knots. Your vessel's deep draft is 16 feet. Gyro error is 2°W. Use 14°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HEADING</th> <th>MAG</th> <th>DEVIATION</th> </tr> </thead> <tbody> <tr> <td>045°</td> <td></td> <td>3.0°E</td> </tr> <tr> <td>060°</td> <td></td> <td>3.0°E</td> </tr> <tr> <td>075°</td> <td></td> <td>1.5°E</td> </tr> <tr> <td>090°</td> <td></td> <td>0.5°W</td> </tr> </tbody> </table>					HEADING	MAG	DEVIATION	045°		3.0°E	060°		3.0°E	075°		1.5°E	090°		0.5°W
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427	At 2127 you take the following round of bearings:  Old Field Point Light 224.0°pgc Middle Ground Light 320.5°pgc Stratford Point Light 348.0°pgc  Based on the above fix, which statement is TRUE?	<b>At 2127, your fathometer reads about 17 fathoms.</b>	You are south of Mt. Misery Shoal.	You will experience a 1 knot westward setting ebb current	You have lost sight of the red light at Old Field Point.
428	At 2127 you are on course 076°T. What is your ETA at a position where Twenty Eight Foot Shoal Lighted Bell Buoy "TE" is abeam to port?	2316	2324	<b>2332</b>	2345
429	At 2200 Middle Ground Light is bearing 270° true at 9 nm  Which statement is TRUE?	The vessel did not experience any set and drift.	<b>You are being set to the left of the track.</b>	The set is towards the southwest.	The drift is 0.6 knot.
430	You alter course to make good 076°T from your 2200 fix, and estimate you will make 13.6 knots over the ground. If the visibility is 5.5 miles, what is the earliest time you will sight Falkner Island Light? (nominal range 13 miles)	The light is visible at 2200	2221	<b>2236</b>	You will not sight the light
431	At 2214 you receive a "Securite" call requesting you to remain at least 2 miles away from underwater work taking place at LAT 41°07.8'N, LONG 72°34.6'W. If you change course at 2220 and allow 3° leeway for southerly winds which course will you steer per gyrocompass to comply with this request? No allowance made for current.	079°pgc	083°pgc	086°pgc	<b>089°pgc</b>
432	At 2236 Falkner Island Light bears 024° true at a range of 8.6 nm  What was the speed made good along the track line since your 2200 fix?	12.7 knots	<b>13.5 knots</b>	13.9 knots	14.2 knots
433	At 2310 your position is LAT 41°05.5'N, LONG 72°33.7'W and you change course to make good 068°T. A radar speed check using Twenty Eight Foot Shoal Buoy indicates your speed over the ground is 13.6 knots. At 2325 Horton Point Light bears 129°T. At 2341 the same light bears 194°T. What is the position of your 2341 running fix?	LAT 41°07.9'N, LONG 72°25.9'W	LAT 41°08.3'N, LONG 72°25.8'W	<b>LAT 41°08.5'N, LONG 72°25.6'W</b>	LAT 41°08.8'N, LONG 72°25.2'W
434	At 2342 the gyro alarm sounds and you commence steering by standard magnetic compass. If you allow 3° leeway for southerly winds and do not correct for any existing current, what is the course to steer by standard magnetic compass to make good 068°T?	054.0°	079.5°	081.0°	<b>084.5°</b>



435	At 2350 the gyro is restored to service. At 0016 the visibility improves. At 0028 you sight Bartlett Reef Light in line with New London Harbor Light bearing 039°pgc. What is the gyro error?	2°E	0°	2°W	4°W															
436	<p>The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. There are fog patches. You are turning for 12.1 knots. Your draft is 22 feet. The gyro error is 3°W. Use a variation of 14°W where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HEADING</th> <th>MAG</th> <th>DEVIATION</th> </tr> </thead> <tbody> <tr> <td>180°</td> <td></td> <td>2.5°E</td> </tr> <tr> <td>195°</td> <td></td> <td>2.0°E</td> </tr> <tr> <td>210°</td> <td></td> <td>1.0°E</td> </tr> <tr> <td>225°</td> <td></td> <td>0.5°W</td> </tr> </tbody> </table>					HEADING	MAG	DEVIATION	180°		2.5°E	195°		2.0°E	210°		1.0°E	225°		0.5°W
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210°		1.0°E																		
225°		0.5°W																		
437	At 2009 you are leaving New London Harbor with buoy "2" close abeam to port, Bartlett Reef Light is at a range of 2.9 nm. What is the true course to the Race that will leave Race Rock Light 0.8 mile abeam to port?	164°	166°	169°	172°															
438	At 2016 you sight N. Dumpling Light in line with Latimer Reef Light (Fl 6 sec, 55 ft) bearing 079°pgc. At the time of the bearing the helmsman reported he was steering 164° pgc and 172° per standard magnetic compass. What is the deviation for that heading?	3°E	1°E	5°W	2°W															
439	At which point in the voyage is your vessel bound by the International Rules of the Roads (COLREGS)?	At the mouth of New London Harbor	Upon entering Block Island Sound	After crossing the line of the Territorial Sea	After passing between Montauk Point and Lewis Point on Block Island															
440	You will pass through the Race at approximately the time of maximum ebb current. As you APPROACH the Race from New London, you will be set _____.	to the left of the track line	to the right of the track line	forward along the track line	towards New London along the track line															
441	At 2030 you take the following radar ranges:  Race Rock Light 2.1 miles Latimer Reef Light 6.4 miles  If you estimate an average current of 080°T at 1.5 knots, which course will you steer per gyrocompass to leave Endeavor Shoals Gong Buoy bearing 270°T at 1.5 miles?	115°	118°	124°	127°															

442	The light on Block Island Sound South Entrance Obstruction Buoy "BIS" is reported extinguished. Which of the following will serve as a positive warning that you are being set onto the obstruction?	Radar ranges to Southwest Point of less than 7.9 miles	Soundings of less than 50 feet	Shagwong Reef Lighted Bell Buoy "7SR" 3.1 miles off abeam	<b>Race Rock Light bearing 299°T and decreasing</b>
443	At 2103 you take the following set of bearings:  Watch Hill Point Light bears 005° true Montauk Point Light bears 170° true  Determine your 2103 fix.	<b>LAT 41°09.2'N, LONG 71°52.5'W</b>	LAT 41°09.1'N, LONG 71°52.2'W	LAT 41°09.0'N, LONG 71°52.9'W	LAT 41°08.8'N, LONG 71°52.5'W
444	You round Montauk Point and steer to make good 206°T. Speed is increased to 13.0 knots. The current, if any, is unknown. The visibility has improved and is estimated to be 5 miles. At 2144 Montauk Point Light bears 273°T. At 2202 the same light bears 320°T. Which statement concerning your 2202 running fix is TRUE?	You are inside the lobster pot area.	<b>The fathometer reads about 12 fathoms.</b>	You are inside of the 90 foot curve.	You are outside the boundary of the Territorial Sea and Contiguous Zone.
445	At 2229 the gyro fails. What is the course to steer per standard magnetic compass to make good 206°T, if you allow 3° leeway for southeasterly winds?	187°	191°	<b>217°</b>	220°
446	The following questions are to be answered using chart 12221 TR, Chesapeake Bay Entrance, and supporting publications. You are southbound along the coast on a course of 180°T and the engine speed is 14 knots. Your draft is 16 feet. Gyro error is 2°W. Use 10°W variation where required.				
447	At 2000 Hog Island Lighted Bell Buoy "12" bears 199° true and Buoy "GM" bears 249° true  Your position is _____.	37°35.0'N, 75°32.2'W	<b>37°23.5'N, 75°32.2'W</b>	37°03.5'N, 75°32.2'W	37°03.5'N, 75°02.2'W
448	From your 2000 position you change course to 206°T. What time would you expect to be abeam of Hog Island Buoy "12"?	2021	<b>2026</b>	2031	2040
449	You should expect to pass how far off buoy "12"?	<b>0.8 mile</b>	1.2 miles	1.7 miles	2.1 miles
450	At 2030 you take the following bearings:  Sand Shoal Inlet South Light - 275°T Cape Charles Light - 235°T  The set and drift from 2000 to 2030 are _____.	088° at 0.7 knot	088° at 1.4 knots	268° at 0.7 knot	<b>268° at 1.4 knots</b>
451	From your 2030 fix you change course to 195°T, and leave the engine speed at 14 knots. At 2045, your position is L 37° 13.50'N Long 075° 38.05' W  Which statement is TRUE?	<b>Cape Charles Light bears 050° relative.</b>	Chesapeake Light bears 190° relative.	Your fathometer reading is approximately 40 fathoms.	Your vessel is located in a restricted area.

452	You continue to steer 195°T. You pass Cape Charles Lighted Bell Buoy "14", 0.9 miles abeam to starboard at 2111. Your speed made good from 2045 to 2111 is _____.	13.7 knots	14.1 knots	14.5 knots	<b>14.8 knots</b>
453	Your course made good from 2045 to 2111 is _____.	187°T	190°T	<b>193°T</b>	196°T
454	If you are going to head directly for Chesapeake Light from your 2111 fix, what is the course to make good?	<b>190°T</b>	193°T	196°T	199°T
455	At 2200, you alter course to 204°T, at 14 knots. You expect a current on this leg of the trip, setting 325° at 1.5 knots. Which course should you steer per gyro compass to make good the true course?	184°pgc	190°pgc	194°pgc	<b>201°pgc</b>
456	The following questions are to be answered using chart 12354 TR, Long Island Sound - Eastern Part, and supporting publications. You are on a coastwise voyage from Bridgeport, Conn., to Boston, Mass. You intend to divert to a position off New Haven, Conn., to evacuate an injured crew member. Your height of eye is 53 feet and your vessel's deep draft is 34 feet. Gyro error is 2°W. Use 14°W variation where required.				
457	At 0820 Old Field Point Light bears 206° per gyrocompass, and Stratford Shoals Middle Ground Light bears 322° per gyrocompass. The radar range to Middle Ground Light is 1.5 miles. Your 0820 fix gives you a position of _____.	LAT 41°02.6'N, LONG 73°05.2'W	<b>LAT 41°02.5'N, LONG 73°04.9'W</b>	LAT 41°02.3'N, LONG 73°05.2'W	LAT 41°02.0'N, LONG 73°05.1'W
458	From your 0820 position you change course to your rendezvous position, one mile due south of buoy "NH", speed 14.5 knots. You estimate the current to be 260°T at 0.5 knot. The wind is northwesterly at 20 knots and you estimate 2° leeway. What is your course per gyrocompass (pgc) to the rendezvous position, if you correct your heading for current and leeway?	039°	041°	043°	<b>045°</b>
459	At 0847 you take a round of bearings as follows:  Middle Ground Shoal Light - 237° pgc Stratford Point Light - 289° pgc New Haven Light - 019° pgc  What were the set and drift since your 0820 position?	Set 180°T, drift 0.6 kt	Set 360°T, drift 0.3 kt	Set 180°T, drift 0.3 kt	<b>Set 360°T, drift 0.6 kt</b>
460	From your 0847 fix, you change course to arrive at the rendezvous position and, correcting for current, you estimate your speed over the ground at 15 knots. What is your ETA at the rendezvous?	0902	0905	<b>0908</b>	0911

461	At 1022 when you complete the evacuation, you get underway on course 098°T and order turns for 14.5 knots. You take the following round of bearings at that time: Stratford Point Light - 260° per gyrocompass New Haven Light - 326° per gyrocompass SW Ledge Light - 358° per gyrocompass  Determine your ETA and distance off when abeam of Falkner Island Light, if there are no set and drift?	1102, 3.0 miles	<b>1108, 3.3 miles</b>	1114, 3.1 miles	1118, 3.3 miles
462	As you cross the New Haven Outer Channel range, you observe the range in line bearing 335.5° per gyrocompass. The helmsman reports that he was heading 100° per gyrocompass, and that the standard magnetic compass read 109° at the time of the observation. What are the gyro error and deviation of the standard magnetic compass on this heading?	Gyro error 2°E, deviation 3°E	Gyro error 0° , deviation 2°W	Gyro error 2°W, deviation 9°W	<b>Gyro error 2°W, deviation 3°E</b>
463	At 1038 Branford Reef Light bears 019°pgc, Falkner Island Light bears 075°pgc, and the radar range to Branford Reef Light is 3.0 miles. Which statement is TRUE of your 1038 position?	You are required by regulation to change course to avoid steaming through the dumping ground.	You are making more speed over the ground, since your 1022 fix, than indicated by your engine RPM.	You are abeam of Townshend Ledge	<b>Your fathometer reads about 25 feet.</b>
464	The north shore of Long Island, from Horton Point to Orient Point, is _____.	<b>bluff and rocky</b>	low and sparsely wooded	marked by long sandy beaches at low water	marshy and backed with sand dunes
465	The visibility is excellent. When Race Rock Light Tower breaks the horizon, how far will you be from the Tower?	8.5 miles	9.6 miles	14.0 miles	<b>17.9 miles</b>
466	The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. Your height of eye is 55 feet and your vessel's draft is 22 feet. Your present course is 111°T and your vessel's engines are turning RPMs for 13 knots.				
467	At 1930 Race Rock Light bears 111°T, and Little Gull Island Light bears 172°T. Which of the following is your position at 1930?	LAT 41°15.6'N, LONG 72°09.6'W	LAT 41°16.1'N, LONG 72°08.3'W	LAT 41°15.3'N, LONG 72°12.9'W	<b>LAT 41°15.8'N, LONG 72°07.1'W</b>
468	From your 1930 position, you set a course of 150°T. Your engine speed is 13 knots. What will be your distance off Valiant Rock Bell Buoy "1A" when abeam, if you make good your true course of 150°?	0.8 mile	<b>1.0 miles</b>	1.2 miles	1.4 miles
469	Available information indicates that there is a set and drift in this area of 290°T at 2 knots. Allowing for this set and drift, what course must you steer to make good a true course of 150°, while maintaining an engine speed of 13 knots, from your 1930 position?	141°T	<b>145°T</b>	149°T	153°T

470	The speed you can expect to make good over your course while steering to make 150°T is _____.	11.0 knots	<b>11.4 knots</b>	14.0 knots	14.4 knots
471	At 1949 Little Gull Island Light bears 270°T and is 1.7 miles off. From this position, you change course to 118°T and increase engine speed to 18 knots. If you make good your course and speed, at what time should Shagwong Reef Lighted Bell Buoy "7SR" bear 180°T?	<b>2016</b>	2019	2022	2025
472	At 2027 you obtain a radar range to Shagwong Point of 3.4 miles and a tangent bearing to the east end of Long Island of 172°T. Which statement is TRUE?	<b>You are to the left of your DR track.</b>	You are inside a precautionary area.	Your speed made good from 1949 to 2027 is 14.0 knots.	Your course made good from 1949 to 2027 is 111°T.
473	From your 2027 position you change course to 106°T, while maintaining an engine speed of 18 knots. Your ETA at a position where Block Island Sound South Entrance Obstruction Lighted Buoy "BIS" is abeam is _____.	2039	2043	2047	<b>2050</b>
474	At 2054 Block Island Southeast Point Light bears 054°T at 6.9 miles and Southwest Ledge Lighted Bell Buoy 2 is 1.6 miles off to port. The set and drift from 2027 to 2054 is _____.	<b>127°T at 3.1 knots</b>	127°T at 1.4 knots	307°T at 3.1 knots	307°T at 1.4 knots
475	From your 2054 position, you change course to 066°T. Maintaining course and speed of 18 knots, at what time can you expect to first cross the 90-foot curve if you experience no set and drift?	<b>2105</b>	2111	2117	2125
476	The following questions are to be answered using chart 12221 TR, Chesapeake Bay Entrance, and supporting publications. Your present course is 200°T and your vessel's engines are turning RPMs for 16 knots. Your height of eye is 55 feet and your vessel's draft is 32 feet. Use 10°W variation where required.				
477	At 2045, buoy "GM" is at a range of 6.45 miles. Hogs Island Bell Buoy "12" is at a range of 5.25 miles.  Your vessel's position is _____.	LAT 37°22.8'N, LONG 75°30.8'W	<b>LAT 37°22.3'N, LONG 75°31.7'W</b>	LAT 37°22.0'N, LONG 75°29.3'W	LAT 37°21.8'N, LONG 75°30.7'W
478	From your 2045 position, you set a course to pass 1.5 miles due east of the charted position of Hog Island Lighted Bell Buoy "12". The known set and drift in the area are 068°T at 3 knots. What is the course to steer, with no change in engine speed, to make good your desired course?	<b>200°T</b>	203°T	206°T	209°T
479	The speed that you can expect to make good, while steering to make good your desired course, is _____.	13.5 knots	<b>14.3 knots</b>	15.1 knots	15.9 knots
480	At 2129 Cape Charles Light bears 253°T, Hog Island Lighted Bell Buoy "12" bears 351°T, and Cape Charles Lighted Bell Buoy "14" bears 230°T. Which statement is TRUE?	The fathometer reads about 62 feet (18.9 meters).	The bottom is hard sand and oysters.	You are to seaward of the contiguous zone.	<b>You are governed by the International Rules of the Road.</b>

481	From your 2129 position you reduce engine speed to 14 knots. What is the course to make good from your 2129 position to arrive 0.3 mile north of Lighted Whistle Buoy "NCA" (LL#375) assuming no set and drift?	216°T	219°T	<b>222°T</b>	225°T												
482	At 2207 Cape Charles Light bears 276°T, Chesapeake Light bears 194°T, and Cape Charles Lighted Bell Buoy "14" bears 312°T and is 2.0 miles off. What were the set and drift of the current acting on your vessel from 2129 to 2207?	258°T at 2.4 knots	258°T at 1.5 knots	078°T at 1.5 knots	<b>078°T at 2.4 knots</b>												
483	From your 2207 position you adjust your course to arrive 0.3 mile north of Lighted Whistle Buoy "NCA". If you make good 14 knots, at what time will Cape Charles Light be abeam?	<b>2242</b>	2245	2247	2250												
484	At 2259 Cape Henry Light bears 250°T, Chesapeake Light bears 122°T, and North Chesapeake Entrance Lighted Whistle Buoy "NCA" has a radar range of 1.8 miles. Which statement is TRUE?	The course made good is 226°T.	You are in the red sector of Cape Henry Light.	You are in a submerged submarine transit lane.	<b>Chesapeake Light is 7.6 miles off.</b>												
485	From your 2259 fix, you alter course to 250°T. At 2300 Cape Henry Light bears 250°T. At 2326 Cape Henry Light bears 252°T. Which statement is TRUE?	You are being set to the right.	The bearing change should be expected as you transit the inbound lane.	<b>You should alter course to starboard.</b>	You should slow to reduce the effect of the current.												
486	<p>The following questions are to be answered using chart 12221 TR, Chesapeake Bay Entrance, and supporting publications. You are on an oceanographic research vessel equipped with standard navigational equipment. The gyro error is 2°W. The maximum draft is 13 feet. Use 10°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HEADING</th> <th>MAG</th> <th>DEVIATION</th> </tr> </thead> <tbody> <tr> <td>060°</td> <td></td> <td>1°W</td> </tr> <tr> <td>075°</td> <td></td> <td>0°</td> </tr> <tr> <td>090°</td> <td></td> <td>1°E</td> </tr> </tbody> </table>					HEADING	MAG	DEVIATION	060°		1°W	075°		0°	090°		1°E
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075°		0°															
090°		1°E															
487	Chesapeake Channel is temporarily closed to traffic. At 2215 you anchor on the following bearings:  Wolf Trap Light                    358°pgc Light "HH"                            301°pgc New Point Comfort Spit Light "2" 263°pgc  What is your 2215 position?	<b>LAT 37°18.3'N, LONG 76°10.9'W</b>	LAT 37°18.2'N, LONG 76°11.2'W	LAT 37°18.1'N, LONG 76°10.8'W	LAT 37°18.0'N, LONG 76°11.2'W												
488	While you are at anchor, what will serve as a positive warning that you are drifting towards the wrecks located to the NW and SW of your 2215 position?	A constant bearing on New Point Comfort Light.	<b>The bearing of Wolf Trap Light changing to the right</b>	Increasing soundings	The bearing of Wolf Trap Light changing to the left												

489	What course per gyrocompass would you need to steer from the anchorage to York Spit Channel buoy "29"?	<b>172° pgc</b>	175° pgc	178° pgc	181° pgc
490	When you get underway, you will take the most direct route to buoy "CBJ", while remaining west of York Spit Channel. You will be turning for 9.7 knots and estimate an average ebb of 0.3 knot during the transit. How long will it take to steam from the anchor position to buoy "CBJ"?	2h 16m	<b>2h 33m</b>	2h 42m	2h 51m
491	The area bounded by the buoys "C51" to "C47A" to "M6" to "M14", west of your anchorage, is _____.	a training area for naval small craft	restricted to oil and mineral exploration	an anchorage for ammunition barges	<b>a fish trap area</b>
492	As you transit the Chesapeake Bay Bridge and Tunnel, you take a gyro bearing of trestle C when it is in line. The gyro bearing was 050°. At that time, the helmsman noted that he was heading 139°pgc and 146° per standard magnetic compass. What is the deviation?	<b>2°E</b>	0°	2°W	4°W
493	At 1042 you take the following round of bearings:  Cape Henry Light 259°T Chesapeake Light 101°T Cape Charles Light 006°T From this position, you set course 070°T at a speed of 9.5 knots.  What is the course per standard magnetic compass?	069.5°psc	060.5°psc	<b>079.5°psc</b>	080.5°psc
494	At 1126 you take the following set of bearings:  Chesapeake Light bears 143° true Cape Henry Light bears 254° true.  What was the current encountered since your 1042 fix?	Set 272°, Drift 0.6 knot	Set 272°, Drift 0.8 knot	Set 092°, Drift 0.6 knot	<b>Set 092°, Drift 0.8 knot</b>
495	You continue on course from your 1126 fix. At 1131 Cape Charles Light bears 322°T. At 1135 you change course to 000°T. At 1149 Cape Henry Light bears 247°T. Which statement concerning your 1149 running fix is TRUE?	Your fathometer reads 47 feet.	<b>You are in a danger area.</b>	Chesapeake Light is due south of you.	You are north of Smith Island Shoal.

496	The following questions are to be answered using chart 12354 TR, Long Island Sound - Eastern Part, and supporting publications. You are turning for 12.5 knots and on a course of 255°T. Your vessel's deep draft is 24 feet. Gyro error is 3°E. Use 14°W variation where required.																		
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497	At 2216 your position is LAT 41°16.0'N, LONG 72°08.0'W. Which statement is TRUE?	<b>You are in the red sector of New London Harbor Light.</b>	Your fathometer reads approximately 40 feet.	You will cross the Colregs Demarcation Line if you continue on your present course.	Little Gull Island Light bears 339°T at 4.3 miles.														
498	If you estimate 3° leeway due to northerly winds, which course will you steer per standard magnetic compass (psc) to make good 255°T?	267°psc	<b>270°psc</b>	272°psc	274°psc														
499	You sight Bartlett Reef Light in range with New London Harbor Light bearing 038°pgc. At the time of the bearing, the helmsman reports he was heading 253°pgc and 269° per standard magnetic compass. What is the deviation for that heading?	<b>1°E</b>	1°W	4°E	4°W														
500	At 2255 you take the following visual bearings.  Saybrook Breakwater Light 333°pgc Little Gull Island Light 094°pgc Horton Point Light 211°pgc  What is your position?	<b>LAT 41°13.6'N, LONG 72°19.2'W</b>	LAT 41°13.8'N, LONG 72°19.6'W	LAT 41°14.0'N, LONG 72°19.0'W	LAT 41°14.2'N, LONG 72°19.7'W														
501	At 2308 your position is LAT 41°12.7'N, LONG 72°22.8'W. You steer a course to make good 255°T from this position. At 2310 you receive a distress call from a vessel anchored 2.1 miles due north of Mattituck Inlet Light. If you change course at 2314, what is the course to steer per gyrocompass to arrive at the distress site if you allow 2° leeway for northerly winds, 3°E gyro error and correct your course for a current of 073°T at 1.3 knots?	208°pgc	212°pgc	216°pgc	<b>220°pgc</b>														
502	Based on the information in the previous question, what is your ETA at the distress scene?	0006	0010	<b>0016</b>	0021														



503	<p>At 2347 you are advised that your assistance is no longer needed. At 2350 you change course to make good 268°T. At 0015 you take the following round of bearings:</p> <p>Kelsey Point Breakwater light 024°pgc  Horton Point Light 100°pgc  Falkner Island Light 333°pgc</p> <p>At 0030 Falkner Island Lt. bears 000°T at 5.9 miles.</p> <p>What is the course and speed made good between 0015 and 0030?</p>	CMG 262°T, SMG 10.4 knots	CMG 268°T, SMG 10.8 knots	CMG 268°T, SMG 10.4 knots	<b>CMG 272°T, SMG 10.8 knots</b>																										
504	At 0030 you alter course and speed to make good 265°T at 10 knots. What is your ETA at a point where Stratford Shoal Middle Ground Light is abeam?	0218	0223	0228	<b>0233</b>																										
505	At 0100 you notice that the wind has become SSW'ly and has freshened. At 0200 you sight Stratford Point Lighted Bell Buoy "18" bearing 268°pgc. At 0215 the buoy bears 269°pgc. Which statement is TRUE?	You should alter course to the right to increase the rate of the bearing change.	You are making more speed over the ground than you estimated.	<b>You should alter course to decrease the distance that you will pass off Middle Ground Shoal.</b>	You can hold the present course and safely pass buoy "18".																										
506	<p>The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. Your height of eye is 42 feet and your vessel's draft is 34 feet. The gyro error is 2°E. You are keeping daylight savings time (ZT+4). Use 15°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>030°</td> <td>3°W</td> </tr> <tr> <td>060°</td> <td>4°W</td> </tr> <tr> <td>090°</td> <td>3°W</td> </tr> <tr> <td>120°</td> <td>2°W</td> </tr> <tr> <td>180°</td> <td>1°E</td> </tr> <tr> <td>210°</td> <td>2°E</td> </tr> <tr> <td>240°</td> <td>3°E</td> </tr> <tr> <td>270°</td> <td>2°E</td> </tr> <tr> <td>300°</td> <td>1°E</td> </tr> <tr> <td>330°</td> <td>1°W</td> </tr> <tr> <td>360°</td> <td>3°W</td> </tr> </tbody> </table>					HDG	DEV	MAG		030°	3°W	060°	4°W	090°	3°W	120°	2°W	180°	1°E	210°	2°E	240°	3°E	270°	2°E	300°	1°E	330°	1°W	360°	3°W
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507	At 0400 your position is:  Latitude 40° 50.2' North Longitude 071° 36.2' West  From your 0400 fix, you steer a course to make good 347°T at 12.5 knots. Visibility is good. What is the earliest time you can expect to raise Montauk Point Light? (Nominal range - 24 miles, height above water - 168 feet)	<b>The light is visible at 0400.</b>	0426	0435	0442
508	You estimate the current to be 125° at 0.6 knot, and the wind is westerly causing 3° of leeway. What course should you steer per gyro compass to make good 347°T while turning for 12.5 knots?	<b>340° pgc</b>	343° pgc	346° pgc	349° pgc
509	At 0445 you take the following lines of position:  Montauk Point Light                    292°pgc Block Island Southeast Point Light   024°pgc  What was the current encountered since your 0400 fix?	004°, 0.7 knot	<b>004°, 0.9 knot</b>	184°, 0.7 knot	184°, 0.9 knot
510	At 0455 you encounter fog and slow to 5 knots. At 0500, you obtain a radar fix from the following information:  Radar range to Montauk Point is 9.1 miles. Tangent bearing to western edge of Block Is. is 015°pgc. Distance off the nearest part of Block Is. is 5.9 miles. What is your 0500 position?	LAT 41°02.8'N, LONG 71°39.5'W	LAT 41°02.9'N, LONG 71°39.8'W	LAT 41°03.1'N, LONG 71°39.6'W	<b>LAT 41°03.5'N, LONG 71°39.3'W</b>
511	Based on your 0500 fix, which statement is TRUE?	You are seaward of the 120 fathom curve.	The course made good between 0445 and 0500 was 345°T.	<b>You should alter course to port to clear Southwest Ledge Shoal.</b>	A radar contact bearing 020°T at 4.8 miles is buoy "2A".
512	At 0520 your position is LAT 41°07.2'N, LONG 71°41.6'W. You set course to leave Race Rock Light abeam to starboard at 0.5 mile. What is the course to steer per standard magnetic compass? (Assume no current)	301.5°	305.0°	<b>307.5°</b>	309.0°
513	Visibility becomes variable in patchy fog and you maintain 5 knots speed. At 0610 you sight Montauk Point Light bearing 239°pgc, and at 0630 you sight Watch Hill Point Light bearing 333°pgc. What is the position of your 0630 running fix?	<b>LAT 41°08.3'N, LONG 71°45.4'W</b>	LAT 41°08.2'N, LONG 71°45.8'W	LAT 41°08.1'N, LONG 71°45.1'W	LAT 41°08.0'N, LONG 71°45.2'W

514	At 0630 you increase speed to 12.0 knots. At 0645 Race Rock Light bears 294°pgc. At 0700 Race Rock Light bears 293°pgc. Based on this, you should _____.	<b>alter course to port</b>	maintain course and speed	alter course to starboard	maintain course and reduce speed																												
515	The Tidal Current Tables indicate the following for the Race: SLACK WATER    MAXIMUM    CURRENT 0328                0642                3.9 F 0947                1301                3.2 E What current should you expect when transiting the Race?	3.9 knots, ebbing	<b>3.9 knots, flooding</b>	3.5 knots, ebbing	3.5 knots, flooding																												
516	<p>The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. Your height of eye is 36 feet and your vessel's draft is 16 feet. The gyro error is 2°E. There is a light haze. Use 15°W variation where required.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> <tr> <th>MAG</th> <th></th> </tr> </thead> <tbody> <tr><td>000°</td><td>2.0°E</td></tr> <tr><td>030°</td><td>3.0°E</td></tr> <tr><td>060°</td><td>4.0°E</td></tr> <tr><td>090°</td><td>2.0°E</td></tr> <tr><td>120°</td><td>1.0°E</td></tr> <tr><td>150°</td><td>1.0°W</td></tr> <tr><td>180°</td><td>2.0°W</td></tr> <tr><td>210°</td><td>3.5°W</td></tr> <tr><td>240°</td><td>3.0°W</td></tr> <tr><td>270°</td><td>1.5°W</td></tr> <tr><td>300°</td><td>0.0°</td></tr> <tr><td>330°</td><td>1.5°E</td></tr> </tbody> </table>					HDG	DEV	MAG		000°	2.0°E	030°	3.0°E	060°	4.0°E	090°	2.0°E	120°	1.0°E	150°	1.0°W	180°	2.0°W	210°	3.5°W	240°	3.0°W	270°	1.5°W	300°	0.0°	330°	1.5°E
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517	At 2212 your position is LAT 40° 51'N, LONG 71° 53.5'W. What is the course to steer, per gyrocompass from your 2212 position, to leave Montauk Point Buoy "MP" abeam to port at 1 mile if easterly winds are causing 3° of leeway?	027° pgc	030° pgc	032° pgc	<b>035° pgc</b>																												
518	What is the earliest time you should sight Montauk Point Light (nominal range - 24 miles) if you are turning for 9.2 knots? Visibility is 5 nautical miles.	<b>The light is visible at 2212</b>	2221	2243	You will not sight the light on this course.																												

519	At 2245 visibility improves and Montauk Point Light bears 355°pgc. At 2314 Montauk Point Light bears 331°pgc, and at 2329 the light bears 311°pgc. Based on your 2329 running fix which statement is TRUE?	You are shoreward of the 90 foot curve.	Your fathometer reads about 136 feet.	<b>You are being set to the left of the track.</b>	You allowed too much leeway for the easterly winds.
520	At 2346 Montauk Point Light bears 285°pgc, and the radar range to Montauk Point is 5.9 miles. You are steering to make good 034°T. In order to remain westward of Southwest Ledge you should _____.	<b>come left when South East Point Light bears 057° true</b>	remain on your present course and you will clear Southwest Ledge	keep Block Island North Light bearing 033°T or less	alter course to the right when Block Island Aerobeacon bears 055°T
521	At 2352 you hear a MAYDAY call from a vessel reporting her position as 1.5 miles due east of Block Island Southeast Point Light. What is the course to steer, per gyrocompass to the distress site, if you change course at midnight and allow 1° leeway for easterly winds?	049.5°pgc	052.5°pgc	055.5°pgc	<b>059.0°pgc</b>
522	At 0040 you are south of Lewis Point when you receive word that the distress is terminated. You alter course to head for The Race. At 0052 you take the following relative bearings because the starboard gyro repeater is inoperative. Your heading at each bearing was 285°pgc. What is your 0052 position?  Race Rock Light 002° Watch Hill Light 034° Block Island North Light 122°	LAT 41°08.8'N, LONG 71°41.4'W	LAT 41°09.0'N, LONG 71°42.3'W	LAT 41°09.0'N, LONG 71°41.1'W	<b>LAT 41°09.1'N, LONG 71°41.7'W</b>
523	You continue to steer 285°pgc from your 0052 fix. Your speed is 9.2 knots. What is the course per standard magnetic compass?	273.5°	276.0°	298.0°	<b>302.0°</b>
524	At 0100 Race Rock Light bears 001° relative, and at 0110 it bears 000° relative. Based on this you know you _____.	<b>are being set to the right of the track</b>	are making good more than 9.2 knots	are making good less than 9.2 knots	have an unknown gyro error
525	In order to check your compasses, you sight Race Rock Light in line with New London Harbor Light bearing 336° per gyrocompass. The helmsman reports the vessel was heading 275.0°pgc and 290.5° per standard magnetic compass at the time of the observation. Which statement is TRUE?	The gyro error is now 2°E.	<b>The deviation table is correct for that heading.</b>	The vessel should be swung to check the deviation table.	The compass error is 0.5°W.
526	The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. Your vessel is on a course of 048°T with a speed of 13.5 knots. Your draft is 39 feet and your height of eye is 58 feet. The Gyro Error is 2° east.				
527	At 2100 your position is 40° 44.1' N, 072° 07.6' W. From this position at what time will Montauk Point light become visible if the luminous range is 8 nm?	<b>2221</b>	2227	2235	2315
528	At 2146 your position is 40° 51.3' N, 071° 59.2' W. If your engine speed has been 13 knots, what was the current you encountered since 2100?	120° true @ 1.1 knots	120° true @ 1.4 knots	300° true @ 1.1 knots	<b>300° true @ 1.4 knots</b>

529	At 2146 what is the approximate reading on your fathometer if it is set on feet?	<b>85 feet</b>	105 feet	121 feet	166 feet
530	At 2146 you slow down to 12 knots. The reported current in the area is 320° @ 2 knots. What is the course to steer to pass to the southeast of Buoy "MP" @ 2 nm?	055°	<b>061°</b>	066°	071°
531	At 2246 your position is 40° 58.5' N, 071° 47.8' W. You determine that _____.	the depth of the water below your keel is 120 feet	there is a submerged unexploded ordnance area within 4 nm of your position	<b>your vessel is within the 120 foot contour curve</b>	your vessel is beyond the 120 foot contour curve
532	From your 2243 position a northeasterly wind is causing 3° of leeway, there is no current, what is the course to steer and your ETA at the point 2 nm southeast of Buoy "MP"?	<b>055° true, 2301</b>	057° true, 2311	058° true, 2311	061° true, 2301
533	At 2310 Buoy "MP" is bearing 305° true @ a range of 2.5 nm. From this position you change course to 005° true. If there is no set and drift what is your distance off Southwest Ledge Buoy "2" when it is on your starboard beam?	0.9 nm	1.1 nm	<b>1.5 nm</b>	1.9 nm
534	At 2344 you are on a course of 293° true, Montauk Point Light is bearing 235° pgc at a range of 6.8 nm. At 2357 Montauk Point Light is bearing 215° true. You increase speed to 14.5 knots. At 0012 Montauk Point Light is bearing 177° true. Which statement about your 0012 running fix is true?	you are being set to the north	<b>your fathometer is reading 14 fathoms</b>	you are governed by the Inland Rules of the Road	the fathometer trace shows that you have passed over the 89 foot sounding
535	At 0016 your position is 41° 10.3' N, 071° 53.0' W. You are steering 296° true and there is no set and drift. At 0049 Race Rock Light is on your starboard beam. What was your speed made good from your 0016 position?	13.8 knots	14.4 knots	15.0 knots	<b>15.6 knots</b>

536	The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel has a draft of 10 feet (3 meters), and your height of eye is 20 feet (6.1 meters). Use 10°W variation where required. The gyro error is 3°E.																																
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537	You are on course 192°pgc at 12 knots. At 1900 your position is: Latitude 37° 22.6' North Longitude 075° 35.7' West  Which of the following is true?	if you maintain course and speed you will pass Hog Island Bell Buoy "2" to starboard	you are inside the 3 nm territorial sea	<b>your fathometer reads 30'</b>	None of the above																												
538	What course should you steer using the standard magnetic compass (psc) to make good the course of 192°pgc?	188°psc	195°psc	<b>203°psc</b>	205°psc																												
539	At 1920, the buoy forward of your starboard beam is _____.	an interrupted quick flashing buoy	Hog Island Lighted Bell Buoy	South Light Buoy	<b>Sand Shoal Inlet Lighted Buoy "A"</b>																												
540	At 1930, your position is LAT 37°16.7'N, LONG 75°37.7'W. The depth of water is approximately _____.	30 feet ( 9.1 meters)	40 feet (12.1 meters)	<b>50 feet (15.1 meters)</b>	60 feet (18.1 meters)																												
541	At 1950, your position is LAT 37°12.3'N, LONG 75°38.6'W. The set and drift from 1930 to 1950 were _____.	150°T at 0.6 knot	<b>150°T at 1.6 knots</b>	330°T at 0.6 knot	330°T at 1.6 knots																												
542	Assume set and drift have no effect on your vessel. If you change course to 187°pgc from your 1950 position, how close will you pass Cape Charles Lighted Bell Buoy "14"?	0.1 mile	0.5 mile	<b>1.1 mile</b>	1.7 miles																												

543	At 2020, you obtain a fix using the following information:  Cape Charles Lighted Bell Buoy "14" bears 333° pgc Cape Charles Light bears 271.5° pgc  Your longitude is _____.	75°38.9'W	75°39.1'W	75°39.3'W	<b>75°40.5'W</b>
544	At 2020, what is the course to steer to enter the inbound lane of North Chesapeake Entrance traffic separation scheme if a northwesterly wind causes 3° of leeway?	227°pgc	224°pgc	<b>221°pgc</b>	215°pgc
545	If you make good 12 knots, what is the ETA at North Chesapeake Channel Entrance Buoy "NCA" (LL #375)?	2116	<b>2111</b>	2106	2101
546	At 2100, Cape Charles Light bears 321°pgc, and Cape Henry Light bears 247°pgc. Your latitude is _____.	37°00.0'N	36°59.7'N	<b>36°59.4'N</b>	36°59.1'N
547	If the visibility is 3 miles, at what range will you lose sight of Chesapeake Light?	The light has never been visible.	6.4 miles	<b>8.3 miles</b>	12.1 miles
548	At 2100, you alter course to 250°T and reduce speed to 7 knots. You enter the traffic separation scheme on the inbound side. At 2200, your fix shows you crossing a broken purple line on the chart, and you observe North Chesapeake Entrance Lighted Gong Buoy "NCD" to port. This area is _____.	<b>a precautionary area centered on buoy "CBJ"</b>	a pilotage area	an area with local magnetic disturbances	in inland waters
549	What course per standard magnetic compass (psc) is the same as 247°pgc?	240°psc	246°psc	<b>257°psc</b>	260°psc
550	At 2215, Cape Henry Light bears 242°pgc, Cape Charles Light bears 010.5°pgc, and Chesapeake Channel Tunnel North Light bears 319°pgc. You are heading 271°pgc. What is the relative bearing of Thimble Shoal Light?	280°	332°	<b>014°</b>	017°
551	While navigating inbound in the Thimble Shoal Channel system you must _____.	navigate in the main channel when between Trestles A & B	maintain a minimum speed of 6 knots	remain 1500 yards (1360 meters) from large naval vessels	<b>use the north auxiliary channel</b>
552	The following questions should be answered using chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. The draft of your vessel is 12 feet (3.6 meters) and your height of eye is 25 feet (7.6 meters). Gyro error is 2°W. Your assumed speed is 7.5 knots. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 14°W for the entire plot.				
553	You are in New Haven Outer Channel and sight the range markers in line directly over the stern. Your heading at the time is 168° per standard magnetic compass. What is the magnetic compass error?	<b>14°W</b>	1°W	1°E	0°

554	At 0720, you are in the outer channel between buoy "1" and buoy "2" and change course to pass Townshend Ledge Lighted Bell Buoy "10A" abeam to port at 0.1 miles. What is the course to steer per gyro compass if a northerly wind causes 2° of leeway?	120°pgc	118°pgc	116°pgc	<b>114°pgc</b>
555	At 0740, you obtain the following radar data:  Branford Reef Light bears 068° true @ 3.0 nm  What is your position?	LAT 41°12.0'N, LONG 72°51.3'W	LAT 41°12.0'N, LONG 72°51.8'W	LAT 41°12.1'N, LONG 72°51.5'W	<b>LAT 41°12.1'N, LONG 72°52.0'W</b>
556	From your 0740 position, you change course to pass 1.1 miles north of Falkner Island Light. Which of the following is true?	you should consult the sailing directions for pilotage requirements	you will pass 1.5 nm off Branford Reef Light	<b>your course will keep you clear of the 18' shoal</b>	None of the above
557	At 0802, the radar range and bearing to Branford Reef Light are 350°pgc at 0.8 mile, and the north point of Falkner Island are 090°pgc at 6.7 miles. What were the set and drift that you encountered since 0740?	Set 085°T, drift .2 knot	<b>Set 085°T, drift .6 knot</b>	Set 265°T, drift .2 knot	Set 265°T, drift .6 knot
558	Falkner Island Light is shown _____.	46 feet (13.9 meters) above sea level	only from 1 June to 10 October	<b>from a white octagonal tower</b>	with a six-second period
559	If there is no current, what is the course per standard magnetic compass from your 0802 fix to a position 1.1 miles north of Falkner Island Light?	064°psc	068°psc	091°psc	<b>095°psc</b>
560	At 0830, you want the latest weather forecasts for the Falkner Island area. On what frequency do you set your FM radio for this information?	2182 kHz	162.80 Mhz	156.65 Mhz	<b>162.55 Mhz</b>
561	At 0844, the range to the north end of Falkner Island is 2.0 miles and the left tangent bearing is 102°T. If the height of the tide is +1.0 foot, what is the approximate depth of the water under the keel?	14 ft (4.2 meters)	<b>19 ft (5.8 meters)</b>	22 ft (6.7 meters)	29 ft (8.8 meters)
562	At 0925, you plot the following:  Falkner Island Light bearing 252° true @ 1.8 nm  If you correct for a current setting 035°T at 0.5 knot, what true course will you steer from the 0925 position to arrive at a position 0.5 mile south of Long Sand Shoal West End Horn Buoy "W"?	089°T	092°T	<b>095°T</b>	102°T
563	If you correct for the current in the preceding question (035°T at 0.5 knot) and maintain an engine speed of 7.5 knots, what is your ETA 0.5 mile south of buoy "W"?	1016	<b>1021</b>	1026	1030



564	At 0946, the radar range to Hammonasset Point is 2.5 miles. The range to the eastern most point of Falkner Island is 3.3 miles, and the range to Horton Point is 10.1 miles. What is your position at 0946?	<b>LAT 41°13.1'N, LONG 72°34.8'W</b>	LAT 41°13.0'N, LONG 72°34.5'W	LAT 41°12.8'N, LONG 72°35.1'W	LAT 41°12.8'N, LONG 72°34.4'W																												
565	Long Sand Shoal _____.	shoals gradually on the north and south sides	<b>is hard and lumpy</b>	shows breakers when northerly winds exceed 10 knots	has gray sand with scattered shells																												
566	During extreme low water, the soundings near Saybrook may require corrections up to _____.	1 foot (+.3 meters)	-2 feet (-.6 meters)	<b>-3.5 feet (-1.1 meters)</b>	The sounding datum is based on extreme low water and no correction is necessary																												
567	As you enter New London Harbor, you are steering on the entrance range. The lights are in line over the bow as you are heading 352°pgc. What is the gyro error?	<b>2°E</b>	0°	1°W	3°W																												
568	<p>The following questions should be answered using chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. The draft of your vessel is 14 feet (4.2 meters). The gyro error is 3°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 10°W for the entire plot.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>2.0°E</td> </tr> <tr> <td>030°</td> <td>1.0°E</td> </tr> <tr> <td>060°</td> <td>0°</td> </tr> <tr> <td>090°</td> <td>0.5°W</td> </tr> <tr> <td>120°</td> <td>1.0°W</td> </tr> <tr> <td>150°</td> <td>2.0°W</td> </tr> <tr> <td>180°</td> <td>2.0°W</td> </tr> <tr> <td>210°</td> <td>1.0°W</td> </tr> <tr> <td>240°</td> <td>0.5°W</td> </tr> <tr> <td>270°</td> <td>0.5°E</td> </tr> <tr> <td>300°</td> <td>1.5°E</td> </tr> <tr> <td>330°</td> <td>2.5°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	2.0°E	030°	1.0°E	060°	0°	090°	0.5°W	120°	1.0°W	150°	2.0°W	180°	2.0°W	210°	1.0°W	240°	0.5°W	270°	0.5°E	300°	1.5°E	330°	2.5°E
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569	Your 1600 position is LAT 37°22.5'N, LONG 75°32.3'W. The depth of water is about _____.	38 feet (11.5 meters)	45 feet (13.6 meters)	<b>52 feet (15.8 meters)</b>	59 feet (17.3 meters)																												

570	If there is no current, what is the course per gyro compass from your 1600 position to point "A" located 0.5 mile due east of Hog Island Lighted Bell Buoy "12"?	190°pgc	193°pgc	196°pgc	<b>199°pgc</b>
571	At 1630, you reach point "A" and come right to 204°T. Your engine speed is 12 knots. Your 1715 position is LAT 37°09.8'N, LONG 75°37.4'W. The current was _____.	067°T at 1.1 knots	<b>067°T at 1.5 knots</b>	247°T at 1.1 knots	247°T at 1.6 knots
572	From your 1715 fix you steer 214°T at 12 knots. At 1800, you take the following bearings:  Cape Charles Light bearing 296° true Cape Henry light bearing 242° true  Your 1800 position is _____.	LAT 37°02.8'N, LONG 75°43.9'W	<b>LAT 37°02.9'N, LONG 75°43.1'W</b>	LAT 37°03.0'N, LONG 75°43.3'W	LAT 37°03.1'N, LONG 75°42.8'W
573	At 1815, your position is LAT 37°01.0'N, LONG 75°42.7'W. If there is no current, what is the course per standard magnetic compass to arrive at a point 0.3 mile due north of North Chesapeake Entrance Lighted Whistle Buoy "NCA"?	249.0°psc	251.5°psc	255.0°psc	<b>257.0°psc</b>
574	From your 1815 position, you want to make good course 263° T. Your engines are turning RPMs for 12 knots. The current is 050°T at 1.9 knots. Adjusting your course for set and drift, at what time should you expect to enter the red sector of Cape Henry Light?	1851	1857	<b>1904</b>	1911
575	At 1920, Cape Henry Light bears 231°pgc, and Chesapeake Channel Tunnel North Light bears 294°pgc. If your heading is 268°T, what is the relative bearing of Chesapeake Light?	<b>213°</b>	201°	194°	179°
576	Which statement concerning your 1920 position is TRUE?	<b>You are entering a restricted area.</b>	You are governed by the Inland Rules of the Road.	You are within the Chesapeake Bay Entrance traffic separation scheme.	On your present course Trestle "C" of the Chesapeake Bay Bridge - Tunnel is dead ahead.
577	From your 1920 position, you change course to enter Chesapeake Channel between buoys 9 and 10. What is the course per gyrocompass?	271°pgc	274°pgc	<b>277°pgc</b>	280°pgc
578	At 2000, your position is LAT 37°04.1'N, LONG 76°05.6'W. You change course for the Eastern Shore. At 2037, Old Plantation Flats Light bears 033°pgc, and York Spit Light bears 282°pgc. The course made good from your 2000 position was _____.	<b>006°T</b>	014°T	020°T	028°T

579	At 2037, you change course and wish to make good a course of 016°T. There is no current, but an easterly wind is causing 3° leeway. What course per standard magnetic compass should you steer to make good the course 016°T?	022°psc	025°psc	<b>028°psc</b>	031°psc																												
580	Your height of eye is 25 feet (7.6 meters). If the visibility is 11 nautical miles, what is the luminous range of Wolf Trap Light?	8.2 miles	<b>12.0 miles</b>	16.0 miles	17.0 miles																												
581	Which chart provides more detail of Cape Charles harbor and its approaches?	12238	12225	<b>12224</b>	12222																												
582	At 2123, your position is LAT 37°20.0'N, LONG 76°03.0'W. What is your distance offshore of Savage Neck?	<b>1.7 miles</b>	2.5 miles	3.6 miles	10.9 miles																												
583	From your 2123 position, you are approximately 42 miles from Crisfield, MD. If you are making good a speed of 11 knots, at what time should you arrive at Crisfield, MD?	2359	0037	<b>0112</b>	0149																												
584	<p>The following questions are to be answered by using chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your draft is 14 feet (4.2 meters). Use 10°W variation where required. The gyro error is 3°E.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>2.0°E</td> </tr> <tr> <td>030°</td> <td>1.0°E</td> </tr> <tr> <td>060°</td> <td>0°</td> </tr> <tr> <td>090°</td> <td>0.5°W</td> </tr> <tr> <td>120°</td> <td>1.0°W</td> </tr> <tr> <td>150°</td> <td>2.0°W</td> </tr> <tr> <td>180°</td> <td>2.0°W</td> </tr> <tr> <td>210°</td> <td>1.0°W</td> </tr> <tr> <td>240°</td> <td>0.5°W</td> </tr> <tr> <td>270°</td> <td>0.5°E</td> </tr> <tr> <td>300°</td> <td>1.5°E</td> </tr> <tr> <td>330°</td> <td>2.5°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	2.0°E	030°	1.0°E	060°	0°	090°	0.5°W	120°	1.0°W	150°	2.0°W	180°	2.0°W	210°	1.0°W	240°	0.5°W	270°	0.5°E	300°	1.5°E	330°	2.5°E
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585	Your 1600 position is LAT 37°22.5'N, LONG 75°32.3'W. The depth of water under the keel is about _____.	<b>38 feet (11.5 meters)</b>	45 feet (13.6 meters)	52 feet (15.8 meters)	59 feet (17.3 meters)																												
586	If there is no current, what is the course per gyro compass from your 1600 position to point A located 0.5 mile due east of Hog Island Lighted Bell Buoy "12"?	190°pgc	<b>193°pgc</b>	196°pgc	199°pgc																												

587	At 1630, you reach point A and come right to 204°T. Your engine speed is 12 knots. Your 1715, position is LAT 37°09.8'N, LONG 75°37.4'W. The current was _____.	067°T at 1.1 knots	246°T at 1.1 knots	<b>067°T at 1.5 knots</b>	246°T at 1.5 knots
588	From your 1715 fix, you steer 214°T at 12 knots. At 1800, you take the following bearings:  Cape Charles Light bearing 296° true Cape Henry light bearing 242° true  Your 1800 position is _____.	<b>LAT 37°02.9'N, LONG 75°43.1'W</b>	LAT 37°02.9'N, LONG 75°43.9'W	LAT 37°03.0'N, LONG 75°43.3'W	LAT 37°03.1'N, LONG 75°42.8'W
589	At 1815, your position is LAT 37°01.0'N, LONG 75°42.7'W. If there is no current, what is the course per standard magnetic compass to arrive at a point 0.3 mile due north of North Chesapeake Entrance Lighted Whistle Buoy "NCA" (LL#375)?	249.0°	251.5°	255.0°	<b>257.0°</b>
590	From your 1815 position, you want to make good a course of 263°T. Your engines are turning RPM's for 12 knots. The current is 050°T at 1.9 knots. Adjusting your course for set and drift, at what time should you expect to enter the red sector of Cape Henry Light?	1849	1854	1859	<b>1904</b>
591	At 1920, Cape Henry Light bears 225°pgc, and Chesapeake Channel Tunnel North Light bears 288°pgc. If your heading is 268°T, what is the relative bearing of Chesapeake Light?	194°	205°	<b>213°</b>	220°
592	Which statement concerning your 1920 position is TRUE?	<b>You are entering a restricted area.</b>	You are governed by the Inland Rules of the Road.	You are within the Chesapeake Bay Entrance traffic separation scheme.	You can expect differences of as much as 6° from the normal magnetic variation of the area.
593	From your 1920 position, you change course to enter Chesapeake Channel between buoys 9 and 10. What is the course per standard magnetic compass (psc) ?	286°psc	<b>283°psc</b>	280°psc	274°psc
594	At 2000, your position is LAT 37°04.1'N, LONG 76°05.6'W. You change course for the Eastern Shore. At 2037, Old Plantation Flats Light bears 033°pgc, and York Spit Light bears 282°pgc. The course made good from your 2000 position is _____.	<b>359°T</b>	006°T	014°T	020°T
595	At 2037, you change course to make good a course of 016°T. There is no current, but a westerly wind is causing 3° leeway. What course per standard magnetic compass (psc) should you steer to make good the course 016°T?	031°psc	028°psc	025°psc	<b>022°psc</b>

596	Your height of eye is 25 feet (7.6 meters). If the visibility is 5.5 nautical miles, what is the luminous range of Wolf Trap Light?	7.5 miles	12.0 miles	16.0 miles	17.0 miles																										
597	If you want a more detailed chart of the area at your 2115 DR position, which chart should you use?	12222	12224	12225	12238																										
598	At 2123, your position is LAT 37°20.0'N, LONG 76°03.0'W. What is your distance offshore of Savage Neck?	4.3 miles	3.4 miles	2.6 miles	1.7 miles																										
599	From your 2123 position, you are approximately 42 miles from Crisfield, MD. If you are making good a speed of 13 knots, at what time should you arrive at Crisfield, MD?	2359	0037	0112	0148																										
600	<p>The following questions are to be answered by using chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your draft is 11 feet (3.3 meters). Use 14°W for variation where required. The gyro error is 3°E.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG MAG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>2.0°E</td></tr> <tr><td>030°</td><td>1.0°E</td></tr> <tr><td>060°</td><td>0°</td></tr> <tr><td>090°</td><td>0.5°W</td></tr> <tr><td>120°</td><td>1.0°W</td></tr> <tr><td>150°</td><td>2.0°W</td></tr> <tr><td>180°</td><td>2.0°W</td></tr> <tr><td>210°</td><td>1.0°W</td></tr> <tr><td>240°</td><td>0.5°W</td></tr> <tr><td>270°</td><td>0.5°E</td></tr> <tr><td>300°</td><td>1.5°E</td></tr> <tr><td>330°</td><td>2.5°E</td></tr> </tbody> </table>					HDG MAG	DEV	000°	2.0°E	030°	1.0°E	060°	0°	090°	0.5°W	120°	1.0°W	150°	2.0°W	180°	2.0°W	210°	1.0°W	240°	0.5°W	270°	0.5°E	300°	1.5°E	330°	2.5°E
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601	At 0700, Stratford Shoal Middle Ground Light bears 137° pgc. From your radar, you get a bearing of 007°pgc to the south tip of Stratford Point with a range of 4.5 miles. What is your 0700 position?	LAT 41°04.6'N, LONG 73°07.0'W	LAT 41°04.6'N, LONG 73°07.4'W	LAT 41°04.7'N, LONG 73°07.2'W	LAT 41°04.8'N, LONG 73°07.0'W																										
602	At 0725, you are heading 054°T, and Stratford Point Light is abeam to port at 3.1 miles. The current is 135°T at 1.8 knots. If you make turns for an engine speed of 8 knots, which course must you steer to make good 048°T?	035°T	042°T	047°T	055°T																										

603	Which structure should you look for while trying to locate Southwest Ledge Light?	White conical tower with a brown band midway of height	<b>White octagonal house on a cylindrical pier</b>	Conical tower, upper half white, lower half brown	Black skeleton tower on a granite dwelling
604	At 0830, you obtained the following radar information:  Branford Reef Light bearing 079° true @ 4.2 nm  What is your vessel's position?	LAT 41°12.4'N, LONG 73°56.0'W	LAT 40°17.4'N, LONG 73°54.0'W	LAT 41°12.0'N, LONG 72°53.8'W	<b>LAT 41°12.4'N, LONG 72°53.8'W</b>
605	From your 0830 position, you wish to make good 097°T. There is no current, but a southerly wind is producing 3° leeway. What course should you steer per standard magnetic compass in order to make good your true course?	118°psc	<b>115°psc</b>	112°psc	109°psc
606	At 0845, you are on a course of 097°T, and Townshend Ledge Buoy "10A" is close abeam to port. With a westerly current of 1.2 knots, what speed will you have to turn for from your 0845 position in order to arrive abeam of Six Mile Reef Buoy "8C" at 1030?	8.5 knots	9.7 knots	<b>10.9 knots</b>	12.1 knots
607	At 0910, your DR position is LAT 41°11.9'N, LONG 72°47.8' W. Your vessel is on course 097°T at 9.5 knots, and the weather is foggy. At 0915, Branford Reef Light is sighted through a break in the fog bearing 318°T. At 0945, Falkner Island Light is sighted bearing 042°T. What is your 0945 running fix position?	LAT 41°11.1'N, LONG 72°41.2'W	LAT 41°11.3'N, LONG 72°41.3'W	LAT 41°11.4'N, LONG 72°41.0'W	<b>LAT 41°11.5'N, LONG 72°40.7'W</b>
608	What do the dotted lines around Goose Island and Kimberly Reef represent?	Limiting danger	Breakers	<b>Depth contours</b>	Tide rips
609	At 1100, your position is LAT 41°11.3'N, LONG 72°28.0'W. You are steering a course of 069°T to leave Black Point one mile off your port beam. It has been reported that the Long Sand Shoal Buoys and Hatchett Reef Buoys are off station. Which of the following will serve as a line marking the hazards and keep your vessel in safe water?	<b>Danger bearing to Black Point of not more than 064°T</b>	Maintaining a 7 nm range off Orient Point	A bearing to Little Gull Island Light of not less than 090°	A distance to Saybrook Breakwater Light of not less than 1.3 miles
610	Little Gull Island Light is _____.	lighted only during daytime when the sound signal is in operation	maintained only from May 1 to Oct 1	<b>lighted throughout 24 hours</b>	obscured by trees from 253° to 352°
611	At 1210, you are in position LAT 41°14.3'N, LONG 72°16.5'W. What is the depth of water below your keel?	<b>97 feet (29.4 meters)</b>	108 feet (32.7 meters)	119 feet (36.1 meters)	125 feet (37.9 meters)
612	From your 1210 position, you are steering a course of 083° T. Your engines are turning RPMs for 10 knots. The set and drift of the current are 310° at 1.7 knots. At what time should you expect to enter the red sector of New London Harbor Light?	1241	<b>1249</b>	1256	1309

613	Your vessel is entering New London Harbor Channel. If there is no current, what should you steer per gyro compass to stay on the range?	351°	354°	357°	006°																										
614	On chart 12354, the datum from which heights of objects are taken is _____.	mean high water	mean low water	lowest low water	mean lower low water																										
615	The red sector of New London Harbor Light covers from _____.	040° - 310°	000° - 041°	208° - 220°	204° - 239°																										
616	<p>The following questions should be answered using chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. The draft of your vessel is 11 feet (3.3 meters). Gyro error is 3°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 14°W for the entire plot.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG MAG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>2.0°E</td></tr> <tr><td>030°</td><td>1.0°E</td></tr> <tr><td>060°</td><td>0°</td></tr> <tr><td>090°</td><td>0.5°W</td></tr> <tr><td>120°</td><td>1.0°W</td></tr> <tr><td>150°</td><td>2.0°W</td></tr> <tr><td>180°</td><td>2.0°W</td></tr> <tr><td>210°</td><td>1.0°W</td></tr> <tr><td>240°</td><td>0.5°W</td></tr> <tr><td>270°</td><td>0.5°E</td></tr> <tr><td>300°</td><td>1.5°E</td></tr> <tr><td>330°</td><td>2.5°E</td></tr> </tbody> </table>					HDG MAG	DEV	000°	2.0°E	030°	1.0°E	060°	0°	090°	0.5°W	120°	1.0°W	150°	2.0°W	180°	2.0°W	210°	1.0°W	240°	0.5°W	270°	0.5°E	300°	1.5°E	330°	2.5°E
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330°	2.5°E																														
617	At 0700, Stratford Shoal Middle Ground Light bears 143°pgc at 1.8 miles. What is your 0700 position?	LAT 41°04.8'N, LONG 73°06.7'W	<b>LAT 41°05.0'N, LONG 73°07.6'W</b>	LAT 41°05.1'N, LONG 73°06.8'W	LAT 41°05.3'N, LONG 73°07.9'W																										
618	At 0725, Stratford Point Light bears 327°pgc at 3.1 miles. At this time, you wish to change course to 048°T. The current is 135°T at 1.8 knots. Your engine speed is 8 knots. What course must you steer to make good 048°T?	035°T	038°T	041°T	044°T																										
619	Which structure should you look for while trying to locate Stratford Point Light?	<b>White conical tower with a brown band midway of height</b>	White octagonal house on a cylindrical pier	Conical tower, upper half white, lower half brown	Black skeleton tower on a granite dwelling																										
620	At 0830, you obtain the following radar information:: Branford Reef Light bearing 079° true @ 4.35 nm  What is your vessel's position?	LAT 41°12.1'N, LONG 73°53.8'W	LAT 40°12.2'N, LONG 73°54.4'W	LAT 41°12.3'N, LONG 72°53.6'W	<b>LAT 41°12.4'N, LONG 72°54.0'W</b>																										

621	From your 0830 position, you wish to make good 097°T. There is no current, but a southerly wind is producing 4° leeway. What course should you steer per standard magnetic compass in order to make good your true course?	101°psc	108°psc	110°psc	<b>115°psc</b>
622	You make good 097°T from your 0830 fix. With a westerly current of 1.2 knots, what engine speed will you have to turn for from your 0830 position in order to arrive abeam of Six Mile Reef Buoy "8C" at 1030?	9.7 knots	<b>10.5 knots</b>	10.9 knots	12.1 knots
623	At 0910, your DR position is LAT 41°11.9'N, LONG 72°47.8'W. Your vessel is on course 097°T at 9.5 knots, and the weather is foggy. At 0915, Branford Reef Light is sighted through a break in the fog bearing 318°T. At 0945, Falkner Island Light is sighted bearing 042°T. What is your 0945 running fix position?	LAT 41°11.3'N, LONG 72°41.2'W	LAT 41°11.3'N, LONG 72°41.0'W	<b>LAT 41°11.5'N, LONG 72°40.7'W</b>	LAT 41°11.6'N, LONG 72°41.0'W
624	What do the dotted lines around Goose Island and Kimberly Reef represent?	Danger soundings	Breakers	Tide rips	<b>Depth contours</b>
625	At 1100, your position is LAT 41°11.3'N, LONG 72°28.0'W. You are steering a course of 069°T to leave Black Point one mile off your port beam. It has been reported that the Long Sand Shoal Buoys and Hatchett Reef Buoys are off station. What will serve to keep your vessel in safe water and away from these hazards?	Maintaining a 7 nm range off Orient Point	<b>Danger bearing to Black Point of not more than 064°T</b>	A bearing to Little Gull Island Light of not less than 090°	A distance to Saybrook Breakwater Light of not less than 1.3 miles
626	Orient Point Light is _____.	lighted only during daytime when the sound signal is in operation	maintained only from May 1 to Oct 1	64 feet (19.4 meters) above mean low water	<b>lighted throughout 24 hours</b>
627	At 1210, you are in position LAT 41°14.3'N, LONG 72°16.5'W. What is the charted depth of water?	97 feet (29.4 meters)	<b>108 feet (32.7 meters)</b>	119 feet (36.1 meters)	125 feet (37.9 meters)
628	From your 1210 position, you are making good a course of 083° T. Your engines are turning RPMs for 10 knots. The set and drift of the current are 310° at 1.7 knots. At what time should you expect to enter the red sector of New London Harbor Light?	<b>1243</b>	1249	1253	1301
629	Your vessel is proceeding up New London Harbor Channel, and you are in line with the range. What would be your course per standard magnetic compass?	352°	354°	002°	<b>007°</b>
630	New London Harbor is _____.	<b>limited to vessels drawing less than 36 feet (10.8 meters)</b>	closed during the winter season	subject to dangerous freshets in the fall	difficult to enter at night
631	The distance from New London to the east entrance of the Cape Cod Canal is _____.	66 miles	77 miles	<b>89 miles</b>	136 miles



<p>The following questions are based on chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 8.5 feet (2.6 meters). Use 14°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1°W</td> </tr> <tr> <td>060°</td> <td>2°W</td> </tr> <tr> <td>090°</td> <td>4°W</td> </tr> <tr> <td>120°</td> <td>2°W</td> </tr> <tr> <td>150°</td> <td>1°W</td> </tr> <tr> <td>180°</td> <td>1°E</td> </tr> <tr> <td>210°</td> <td>2°E</td> </tr> <tr> <td>240°</td> <td>3°E</td> </tr> <tr> <td>270°</td> <td>3°E</td> </tr> <tr> <td>300°</td> <td>2°E</td> </tr> <tr> <td>330°</td> <td>1°E</td> </tr> </tbody> </table>						HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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632																																	
633	What type of bottom is found at Long Sand Shoal?	Rocky	Muddy	Sandy	<b>Hard</b>																												
634	You are southeast of Saybrook Breakwater Light passing Saybrook Bar Lighted Bell Buoy "8". This buoy marks _____.	<b>shoal water</b>	a tide rips area	the junction with the Connecticut River	a sunken wreck																												
635	At 0005, on 26 January, your position is LAT 41°11.8'N, LONG 72°20.5'W. From this position, you plot a course to steer to a point one half mile north of Mattituck Breakwater Light "MI" with an engine speed of 9.0 knots. If there are no set and drift, what course should you steer?	207°psc	213°psc	220°psc	<b>235°psc</b>																												
636	At 0045, you obtain the following bearings:  Rocky Point lookout tower 072°T Horton Point lighthouse 213°T  What were the set and drift between 0005 and 0045?	272°true, 0.9 knot	272°true, 1.4 knots	092°true, 0.9 knot	<b>092°True, 1.4 knots</b>																												
637	You alter course from your 0045 position to head for a point 0.5 mile north of Mattituck Breakwater Light "MI". If the visibility is 10 miles and you make good 9 knots, at approximately what time will you lose sight of Saybrook Breakwater Light?	You have already lost sight at 0045	<b>0055</b>	0120	The light is visible all the way to Mattituck Inlet																												

638	At 0100, you obtain the following bearings:  Rocky Point Lookout Tower 062°T Horton Point Lighthouse 189°T  What was the speed made good between 0045 and 0100?	<b>7.4 knots</b>	8.0 knots	8.7 knots	9.2 knots
639	From your 0100 position, you change course to 258° per standard magnetic compass. Your engine speed is 10.0 knots. A short time later, your fathometer reads 51 feet (15.5 meters) under the keel. What is the water depth?	38.5 feet (11.7 meters)	43.5 feet (13.2 meters)	51.0 feet (15.5 meters)	<b>59.5 feet (18.0 meters)</b>
640	According to the DR track line from your 0100 position, how far off Roanoke Point Shoal Buoy "5" should you be when the buoy is abeam?	0.2 mile	<b>0.6 mile</b>	1.3 miles	1.8 miles
641	At 0130, you obtain the following bearings:  Horton Point Lighthouse 078°T Mattituck Breakwater Light tower 196°T  What were the course and speed made good between 0100 and 0130?	<b>246°T at 9.8 knots</b>	253°T at 9.4 knots	259°T at 9.8 knots	267°T at 9.4 knots
642	From your 0130 position, you take the following radar ranges:  Mattituck Inlet Light @ 4.6 nm Falkner Island Light @ 10.75  What is the latitude and longitude of the fix?	LAT 41°00.8'N, LONG 72°40.8'W	LAT 41°01.2'N, LONG 72°40.4'W	LAT 41°01.6'N, LONG 72°40.0'W	<b>LAT 41°02.0'N, LONG 72°39.5'W</b>
643	At 0209, your position is LAT 41°01.8'N, LONG 72°40.8'W. What course should you steer per standard magnetic compass to make good 278° magnetic? (assume no set and drift)	262.0°psc	265.0°psc	<b>275.5°psc</b>	280.5°psc
644	The south coast of Long Island Sound between Mattituck Inlet and Port Jefferson is _____.	composed of high rocky bluffs	a high, flat plateau with sheer cliffs	<b>fringed by rocky shoals</b>	low and marshy with isolated beaches
645	At 0300, your position is LAT 41°01.7'N, LONG 72°55.1'W. From this position you steer a course of 289° per standard magnetic compass at an engine speed of 10.0 knots. At what time can you first expect to see Stratford Shoal Middle Ground Light if the luminous range is 8.0 miles?	<b>0303</b>	0309	0312	0318

646	You must arrive at your final destination by 0800. The distance from your 0300 position to the final destination is 40.5 miles. What minimum speed must be made good to arrive on time?	8.1 knots	8.5 knots	9.3 knots	9.6 knots																										
647	You are northwest of Port Jefferson Harbor steering 242° per standard magnetic compass. As you continue westward, you see that the Port Jefferson Range Front Light and Rear Light come into line. If the deviation table is correct, the bearing of the range should be _____.	140°psc	146°psc	157°psc	160°psc																										
648	<p>The following questions should be answered using chart number 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 9 feet (2.7 meters). You are turning for 7.5 knots. Your height of eye is 25 feet (7.6 meters). The variation for the area is 14°W.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG MAG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>0.0°</td></tr> <tr><td>030°</td><td>1.0°W</td></tr> <tr><td>060°</td><td>3.0°W</td></tr> <tr><td>090°</td><td>2.0°W</td></tr> <tr><td>120°</td><td>1.0°W</td></tr> <tr><td>150°</td><td>0.0°</td></tr> <tr><td>180°</td><td>0.0°</td></tr> <tr><td>210°</td><td>1.0°E</td></tr> <tr><td>240°</td><td>2.0°E</td></tr> <tr><td>270°</td><td>1.5°E</td></tr> <tr><td>300°</td><td>1.0°E</td></tr> <tr><td>330°</td><td>0.0°</td></tr> </tbody> </table>					HDG MAG	DEV	000°	0.0°	030°	1.0°W	060°	3.0°W	090°	2.0°W	120°	1.0°W	150°	0.0°	180°	0.0°	210°	1.0°E	240°	2.0°E	270°	1.5°E	300°	1.0°E	330°	0.0°
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649	As you enter the New Haven Outer Channel, you sight the range markers in line directly over the stern. Your heading at the time is 155.5° per gyrocompass. What is the gyro error?	1.0°E	1.0°W	2.0°W	0°																										
650	At 0720, you are in the outer channel between buoy "1" and buoy "2" and change course to pass Townshend Ledge Lighted Bell Buoy "10A" abeam to port at 200 yards. What is your ETA off the buoy?	0734	0738	0741	0745																										

651	At 0740, you obtain the following radar information:  Branford Reef Light bearing 070° true @ 2.55 nm  What is your position?	LAT 41°12.6'N, LONG 72°51.3'W	LAT 41°12.6'N, LONG 72°51.8'W	<b>LAT 41°12.4'N, LONG 72°51.6'W</b>	LAT 41°12.3'N, LONG 72°52.0'W
652	From your 0740 position, you change course to pass 1.1 miles north of Falkner Island Light. Which of the following is true?	You should consult the sailing directions for pilotage requirements.	You will pass 1.5 nm off Branford Reef Light.	<b>Your course will keep you clear of the 18' shoal.</b>	None of the above.
653	At 0802, Branford Reef Light bears 348°T at 0.75 mile, and the north point of Falkner Island bears 088°T at 6.7 miles. What were the set and drift since 0740?	Set 040°T, drift .3 knot	<b>Set 220°T, drift .9 knot</b>	Set 220°T, drift .3 knot	You are making good your intended course and speed.
654	What publication contains information on the navigational hazards in the vicinity of Falkner Island?	The navigational regulations in Title 46 Code of Federal Regulations	Inland Navigation Rules	U.S. Coast Guard Light List	<b>U.S. Coast Pilot</b>
655	If there is no current, what is the course per standard magnetic compass from your 0802 fix to the position 1.1 miles north of Falkner Island Light?	064°	068°	<b>095°</b>	099°
656	At 0830, you wish to get the latest weather forecasts for the Falkner Island area. On what frequency would you set your FM radio for this information?	2181 kHz	156.65 Mhz	156.80 Mhz	<b>162.40 Mhz</b>
657	At 0844, the range to the north end of Falkner Island is 2.0 miles and the left tangent bearing is 102°T. What is the approximate charted depth of the water?	14 ft (4.2 meters)	19 ft (5.8 meters)	22 ft (6.7 meters)	<b>29 ft (8.8 meters)</b>
658	At 0925, you obtain the following radar information:  Falkner Island Light bearing 252° true @ 1.65 nm  If you correct for a current setting 215°T at 0.5 knot, what course will you steer from the 0925 position to arrive at a position 0.5 mile south of Long Sand Shoal West End Horn Buoy "W"?	<b>089°T</b>	093°T	096°T	102°T
659	If you correct for the current in the preceding question (215°T at 0.5 knot) and maintain an engine speed of 7.5 knots, what is your ETA 0.5 mile south of buoy "W"?	1016	1021	<b>1026</b>	1030
660	At what approximate distance would you expect Bartlett Reef Light to break the horizon, if the visibility is 27 nautical miles?	5.9 nm	6.9 nm	12.0 nm	<b>12.8 nm</b>
661	Long Sand Shoal _____.	indicate shoals gradually on the north and south sides	shows breakers when northerly winds exceed 10 knots	<b>is hard and lumpy</b>	has gray sand with scattered shells

662	At 1200, your position is 2.0 miles southwest of Bartlett Reef Light. Your heading is 075°T. Visibility is less than 0.2 mile in fog and rain. Which of the following signals is most likely to be from another vessel?	Whistle from 125° relative	<b>Whistle from 075° relative</b>	Bell from 350° relative	Horn from 330° relative																										
663	What chart should you use after you enter New London Harbor?	13211	<b>13213</b>	13214	13272																										
664	<p>The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your height of eye is 25 feet (7.6 meters). Use 10°W variation where required. The gyro error is 3°E.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG MAG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1°W</td></tr> <tr><td>060°</td><td>2°W</td></tr> <tr><td>090°</td><td>4°W</td></tr> <tr><td>120°</td><td>2°W</td></tr> <tr><td>150°</td><td>1°W</td></tr> <tr><td>180°</td><td>1°E</td></tr> <tr><td>210°</td><td>2°E</td></tr> <tr><td>240°</td><td>3°E</td></tr> <tr><td>270°</td><td>3°E</td></tr> <tr><td>300°</td><td>2°E</td></tr> <tr><td>330°</td><td>1°E</td></tr> </tbody> </table>					HDG MAG	DEV	000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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665	The National Weather Service provides 24 hour weather broadcasts to vessels transiting the Chesapeake Bay Bridge Tunnel area on which frequency?	147.45 MHz	<b>162.55 MHz</b>	181.15 MHz	202.35 MHz																										
666	At 1752, your position is LAT 37°04.3'N, LONG 76°06.4'W. On a flood current you should expect to be set to the _____.	<b>north northwest</b>	south southwest	east southeast	east																										
667	Your 1752 position places you _____.	<b>less than 0.5 mile westward of York Spit Channel</b>	less than 0.5 mile eastward of York Spit Channel	greater than 0.5 mile westward of York Spit Channel	greater than 0.5 mile eastward of York Spit Channel																										
668	What is the average velocity of the maximum flood current at the Tail of the Horseshoe?	0.6 knot	<b>0.9 knot</b>	1.3 knots	1.6 knots																										

669	From your 1752 position, you steer 307°pgc at 9 knots. At 1805, you obtain the following visual bearings:  Old Pt. Comfort Light                      232°pgc. Chesapeake Bay Tunnel North Light 130°pgc.  What are the latitude and longitude of you 1805 position?	LAT 37°06.1'N, LONG 76°08.1'W	LAT 37°06.0'N, LONG 76°08.4'W	LAT 37°05.9'N, LONG 76°07.7'W	<b>LAT 37°05.9'N, LONG 76°08.0'W</b>
670	At 1810, you sight a buoy on your starboard side labeled "19". This buoy marks _____.	a submerged obstruction in York Spit Channel	the visibility limit of the red sector of Cape Henry Light	<b>the side of York Spit Channel</b>	the junction of the York Spit and York River Entrance Channels
671	Based on a DR, at approximately 1817 you would expect to _____.	enter a traffic separation zone	<b>depart a regulated area</b>	cross a submerged pipeline	depart a restricted area
672	At 1845, you obtain the following bearings:  Old Plantation Flats Light                      071° true New Point Comfort Spit Light "2"      334° true  Your latitude is _____.	37°10.7'N	37°10.9'N	37°11.0'N	<b>37°11.2'N</b>
673	Your 1900 position is LAT 37°12.9'N, LONG 76°13.5'W. You change course to 317°pgc and slow to 8.0 knots. What is the course per standard magnetic compass?	331°psc	<b>329°psc</b>	311°psc	309°psc
674	If the visibility is 11 miles, what is the luminous range of New Point Comfort Spit Light "4"?	0.5 mile	3.8 miles	4.3 miles	<b>5.0 miles</b>
675	According to your track line, how far off New Point Comfort Spit Light "4" will you be when abeam of this light?	<b>0.9 mile</b>	1.2 miles	1.5 miles	1.8 miles
676	At 1930, you take a fix using the following radar ranges:  York Spit Light -                                      3.6 miles New Point Comfort Spit Light "2" -      2.0 miles York Spit Swash Channel Light "3" - 2.5 miles  Your longitude is _____.	76°16.5'W	<b>76°16.8'W</b>	76°17.0'W	76°17.2'W
677	What was the speed made good from 1845 to 1930?	6.2 knots	7.5 knots	<b>8.3 knots</b>	9.4 knots
678	What is the height above water of Davis Creek Channel Light "1"?	6 feet (1.8 meters)	<b>15 feet (4.6 meters)</b>	17 feet (5.2 meters)	24 feet (7.3 meters)
679	If you have 17.3 miles to reach your destination from your 2000 position and want to be there at 2230, what speed should you make good?	5.7 knots	6.1 knots	6.5 knots	<b>6.9 knots</b>

The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel has a draft of 8.0 feet (2.4 meters). Use 10°W variation where required. The gyro error is 2°W. Your height of eye is 26 feet.

DEVIATION TABLE

HDG MAG	DEV
000°	0°
030°	1°W
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090°	4°W
120°	2°W
150°	1°W
180°	1°E
210°	2°E
240°	3°E
270°	3°E
300°	2°E
330°	1°E

<b>680</b>					
<b>681</b>	At 1730, your position is LAT 37°13.9'N, LONG 76°26.4'W. You are steering course 088° per standard magnetic compass (psc) at an engine speed of 8.0 knots. What is your distance off Tue Marshes Light at 1730?	<b>2.6 miles</b>	2.8 miles	3.0 miles	3.2 miles
<b>682</b>	What is the maximum allowable speed of vessels underway up river from Tue Marshes Light?	6 knots	8 knots	10 knots	<b>12 knots</b>
<b>683</b>	At 1750, your position is LAT 37°14.5'N, LONG 76°22.9'W. What was the course made good between 1730 and 1750?	072°T	075°T	<b>078°T</b>	080°T
<b>684</b>	At 1800, Tue Marshes Light bears 264.5°pgc, York Spit Swash Channel Light "3" bears 007°pgc. Your position is _____.	LAT 37°15.5'N, LONG 76°19.8'W	LAT 37°15.2'N, LONG 76°20.3'W	LAT 37°15.0'N, LONG 76°20.0'W	<b>LAT 37°14.5'N, LONG 76°20.1'W</b>
<b>685</b>	What course should you steer per standard magnetic compass in order to navigate down the center of York River Entrance Channel (ignore set and drift)?	139°psc	<b>141°psc</b>	147°psc	149°psc
<b>686</b>	You have just passed York River Entrance Channel Lighted Buoys "13" and "14". The chart shows a light approximately 1.0 mile off your port beam with a light characteristic "Fl 6 sec". What is the name of this light?	Mobjack Bay Entrance Light	New Point Comfort Spit Light "4"	<b>York Spit Light</b>	York River Entrance Channel Light "1"

687	At 1930, your vessel is between York River Entrance Channel Lighted Buoys "1YR" and "2". From this position, you change course to 142°pgc at an engine speed of 8.0 knots. At 2001, you obtain the following information: Chesapeake Channel Tunnel North Light - 131°pgc; Thimble Shoal Light - 248°pgc  What were the set and drift between 1930 and 2001?	127° at 1.1 knot	<b>127° at 0.5 knot</b>	307° at 1.1 knot	307° at 0.5 knot
688	At 2015, your vessel is at the Chesapeake Bay Bridge and Tunnel midway between buoys "13" and "14". If the height of tide is -1 foot (-0.3 meters), what is the approximate depth of water?	<b>53 feet (15.5 meters)</b>	46 feet (13.9 meters)	40 feet (12.1 meters)	35 feet (10.6 meters)
689	If you steer 143°pgc from your 2015 position at an engine speed of 8.0 knots, at what time would you reach a point midway between buoys "11" and "12" (ignore set and drift)?	2023	<b>2029</b>	2032	2037
690	At 2015, you alter course to 154°pgc. What is the course per standard magnetic compass (psc)?	<b>162°psc</b>	157°psc	152°psc	142°psc
691	Which of the following concerning Thimble Shoal Channel is TRUE?	Only deep-draft passenger ships and large naval vessels may use the main channel.	The channel is 14.5 miles in length.	<b>A tow drawing 20 feet is excluded from the main channel.</b>	Thimble Shoal Channel is in international waters.
692	At 2118, you obtain the following bearings:  Cape Henry Light - 148°pgc Cape Charles Light - 033°pgc Thimble Shoal Light - 291°pgc  From this position, you proceed to Norfolk, VA, a distance of approximately 26.0 miles. To arrive at Norfolk at 0200 the next day, what is the speed to make good from your 2118 position to arrive at this time?	5.0 knots	<b>5.5 knots</b>	6.0 knots	6.5 knots
693	What is your 2118 position?	LAT 36°57.0'N, LONG 76°01.5'W	<b>LAT 36°57.4'N, LONG 76°01.9'W</b>	LAT 36°57.8'N, LONG 76°01.5'W	LAT 36°58.2'N, LONG 76°02.4'W
694	From your 2118 position, you steer a course of 288°T at an engine speed of 7.0 knots. At 2120 visibility is suddenly reduced to 2 miles. At what time can you expect Old Point Comfort Light to become visible again?	2136	2143	2202	<b>2233</b>
695	If the Old Point Comfort main light was inoperative what emergency light would be shown?	Flashing yellow	Alternating red and white	<b>Light of reduced intensity</b>	Strobe light



<p>The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel has a draft of 9.0 feet (2.7 meters). Your height of eye is 15 feet (4.6 meters). Use 10°W variation where required. The gyro error is 2°W.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1°W</td> </tr> <tr> <td>060°</td> <td>2°W</td> </tr> <tr> <td>090°</td> <td>4°W</td> </tr> <tr> <td>120°</td> <td>2°W</td> </tr> <tr> <td>150°</td> <td>1°W</td> </tr> <tr> <td>180°</td> <td>1°E</td> </tr> <tr> <td>210°</td> <td>2°E</td> </tr> <tr> <td>240°</td> <td>3°E</td> </tr> <tr> <td>270°</td> <td>3°E</td> </tr> <tr> <td>300°</td> <td>2°E</td> </tr> <tr> <td>330°</td> <td>1°E</td> </tr> </tbody> </table>						HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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697	At 1400, your position is LAT 37°14.7'N, LONG 76°22.3'W. From this position, you head for the York River Entrance Channel Buoy "17". What should you steer per standard magnetic compass for this heading?	108°psc	119°psc	122°psc	125°psc																												
698	At 1430, your position is LAT 37°12.8'N, LONG 76°17.7'W. At this time, you come left and steer 045°T. This course will lead you through a channel bordered by yellow buoys. The dashed magenta lines between the buoys mark _____.	York River Entrance Channel	New Point Comfort shoal area	the piloting channel for Mobjack Bay	the limits of fish trap areas																												
699	From your 1430 fix, you order turns for 8 knots. You steer 045°T and experience no set and drift. At what time would you expect to have New Point Comfort Spit Light "4" abeam?	1452	1458	1504	1510																												
700	At 1540, your position is LAT 37°18.4'N, LONG 76°10.5'W. Which course should you steer per gyrocompass to head for the entrance to Cape Charles City?	109°pgc	117°pgc	123°pgc	129°pgc																												

701	You arrive at Cape Charles City at 1700 and depart at 1800. You are underway in Chesapeake Bay and encounter heavy fog. At 1830, you obtain the following radar readings:  Old Plantation Flats Light @ 1.9 nm New Point Comfort Spit Light "2" bearing 301° true @ 10.55 nm  What is your 1830 position?	LAT 37°10.3'N, LONG 76°04.5'W	LAT 37°10.3'N, LONG 76°06.5'W	<b>LAT 37°12.3'N, LONG 76°04.4'W</b>	LAT 37°12.3'N, LONG 76°06.5'W
702	From your 1830 fix, you continue south on a course of 150°T turning RPMs for 6 knots. You encounter a flood current in the direction of 330°T at 2 knots. Adjusting your course for set and drift, which course would you steer to make good a course of 150°T while turning RPMs for 6 knots?	144°T	<b>150°T</b>	158°T	162°T
703	Determine your 1915 position using the following information obtained at 1915.  Visual bearings Cape Charles Light 107°pgc Cape Henry Light 172°pgc Radar Bearing and Range Chesapeake Channel Tunnel South Light 189°pgc at 7.2 miles	LAT 37°03.5'N, LONG 76°05.9'W	LAT 37°03.5'N, LONG 76°09.3'W	LAT 37°05.9'N, LONG 76°03.5'W	<b>LAT 37°09.3'N, LONG 76°03.1'W</b>
704	From your 1915 fix you come right and steer a course of 200°T. At 2000, your position is LAT 37°05.5'N, LONG 76°07.0'W. Your intention is to pass through Chesapeake Channel. If there are no set and drift, what course would you steer per standard magnetic compass to make good a course of 145°T?	134°	139°	151°	<b>156°</b>
705	At 2100, you have passed through the Chesapeake Bay Bridge and Tunnel and determine your position to be LAT 37°01.3' N, LONG 76°03.0'W. The current is flooding in a direction of 303°T at 2.5 knots. Adjusting your course for set and drift, which course would you steer while turning RPMs for 6 knots to make good a course of 175°T?	<b>156°T</b>	164°T	183°T	190°T
706	At 2150, your position is LAT 36°57.2'N, LONG 76°01.3'W. In this position on the chart, you note a light magenta line running in a direction of 030°T. This line indicates the limits of _____.	a precautionary area	<b>a pilotage area</b>	the Cape Henry Light red sector	chart 12222

707	At 2200, you are in position LAT 36°57.5'N, LONG 76°02.5'W. You intend to travel up the Thimble Shoals auxiliary Channel to Hampton Roads. According to the Coast Pilot, what is the depth of the auxiliary channel on either side of the main channel?	28 feet (8.5 meters)	<b>32 feet (9.8 meters)</b>	36 feet (11.0 meters)	45 feet (13.7 meters)																												
708	From your 2200 fix, you steer course 288°T to travel up the Thimble Shoal North Auxiliary Channel. If you are making good 6.0 knots, at what time would you expect to pass buoy "18" at the west end of the channel? (There are no set and drift.)	2239	2255	2315	<b>2344</b>																												
709	At 2205, you are in Thimble Shoal North Auxiliary Channel abeam of lighted gong buoy "4". At this time the visibility decreases to 5 miles. You continue to turn RPMs for 6 knots and experience no set and drift. What time would you expect Old Point Comfort Light (white sector) to become visible?	2230	<b>2240</b>	2246	2258																												
710	The mean high water level at Old Point Comfort is _____.	<b>2.6 feet (0.8 meters)</b>	1.2 feet (0.4 meters)	0.0 feet	-3.5 feet (-1.1 meters)																												
711	You are entering Norfolk Harbor and have just passed Craney Island. Which chart should you use for your final approach into Norfolk Harbor?	12223	12238	12248	<b>12253</b>																												
712	<p>The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. The draft of your tow is 27 feet (8.2 meters). Use 10°W variation where required. There is no gyro error.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1°W</td> </tr> <tr> <td>060°</td> <td>2°W</td> </tr> <tr> <td>090°</td> <td>4°W</td> </tr> <tr> <td>120°</td> <td>2°W</td> </tr> <tr> <td>150°</td> <td>1°W</td> </tr> <tr> <td>180°</td> <td>1°E</td> </tr> <tr> <td>210°</td> <td>2°E</td> </tr> <tr> <td>240°</td> <td>3°E</td> </tr> <tr> <td>270°</td> <td>3°E</td> </tr> <tr> <td>300°</td> <td>2°E</td> </tr> <tr> <td>330°</td> <td>1°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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713	Your 0200 position is LAT 37°23.5'N, LONG 76°09.2'W. Your speed is 8 knots, and your course is 095°T. Which statement is TRUE?	The depth of the water in your vicinity is about 38 to 40 fathoms (69.1 meters to 72.7 meters).	<b>You are less than a mile from a sunken wreck which could interfere with your tow.</b>	The closest major aid to navigation is New Point Comfort Light.	You will pass through a disposal area on your present course.
714	At 0315, you obtain the following bearings:  Old Plantation Flats Light bearing 179.5° true Wolf Trap Light bearing 271° true  What is the true course from this position to the entrance of York Spit Channel?	203°	<b>208°</b>	211°	217°
715	From your 0315 position, what time can you expect to reach York Spit Channel Buoys "37" and "38"?	<b>0405</b>	0412	0417	0423
716	The engineer has advised that it will be necessary to secure the gyrocompass and the electronic equipment. From your 0315 position, what is your course per standard magnetic compass to York Spit Channel Buoy "38", if there is no current?	212°psc	214°psc	<b>216°psc</b>	218°psc
717	Which chart could you use for greater detail of the area at the south end of York Spit Channel?	<b>12222</b>	12224	12226	12254
718	You leave York Spit Channel at buoy "14" at 0600 with an engine speed of 12 knots. You receive orders to rendezvous with the tug "Quicksilver" and her tow at Hog Island Bell Buoy "12". What is your ETA at the rendezvous point, if you pass through Chesapeake Channel to buoy "CBJ", through the outbound traffic separation lane to buoy "NCA" (LL#375), and then to the rendezvous point?	0830	0850	<b>0910</b>	0935
719	You arrive at the rendezvous point, secure the tow, and head back southward. At 1200, you take the following bearings:  Cape Charles Light bearing 240.5° true Sand Shoal Inlet South Light bearing 289° true  What is your 1200 position?	LAT 37°10.5'N, LONG 75°33.0'W	LAT 37°12.0'N, LONG 75°35.0'W	<b>LAT 37°15.0'N, LONG 75°37.5'W</b>	LAT 37°19.0'N, LONG 75°40.5'W
720	From your noon position, if there is no set and drift, what is your course per standard magnetic compass to the "NCA" (LL #375) buoy?	215°psc	<b>217°psc</b>	219°psc	221°psc

721	Your gyro and electronic gear are again operating. At 1710, Chesapeake Light bears 137°pgc at 6.6 miles. The current is setting 160°T at 2 knots. At your speed of 6 knots, what is your true course to steer to remain in the inbound traffic lane?	<b>269°</b>	265°	261°	250°
722	At 1810, you obtain the following radar reading: Cape Henry Light bearing 252.5° true @4.0 nm What is your position?	LAT 36°56.0'N, LONG 75°58.5'W	LAT 36°55.4'N, LONG 75°56.0'W	LAT 36°54.9'N, LONG 75°53.8'W	<b>LAT 36°56.8'N, LONG 75°55.6'W</b>
723	What speed have you made good from 1710 to 1810?	4.2 knots	4.9 knots	5.5 knots	<b>6.3 knots</b>
724	If you make good a speed of 6.0 knots from your 1810 position, what is your ETA at Chesapeake Channel Lighted Bell Buoy "2C"?	<b>1833</b>	1845	1855	1900
725	You passed Cape Henry Light at 0730 outbound at maximum flood. What approximate current can you expect on entering Chesapeake Channel?	Slack before ebb	Slack before flood	Ebb current	<b>Flood current</b>
726	The coastline by Cape Henry is best described as _____.	rocky with pine scrubs	<b>sandy hills about eighty feet high</b>	low wetlands	low and thinly wooded with many beach houses
727	Inbound, the color of Cape Henry Light will _____.	<b>change before you reach Chesapeake Channel Lighted Bell Buoy "2C"</b>	change after you reach Chesapeake Channel Lighted Bell Buoy "2C"	remain the same	alternate regardless of your position

	The following questions are based on chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 12 feet (3.6 meters). Your height of eye is 16 feet (4.8 meters). The gyro error is 2°E. Use 14°W variation where required.																																
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729	You are on course 082°T, and the engines are turning for 8 knots. At 0352, you take the following bearings:  Stratford Point Light                      016°pgc Stratford Shoal (Middle Ground) Light 137°pgc  What is your 0352 position?	LAT 41°05.0'N, LONG 73°08.0'W	<b>LAT 41°05.2'N, LONG 73°07.8'W</b>	LAT 41°05.3'N, LONG 73°07.5'W	LAT 41°05.4'N, LONG 73°07.7'W																												
730	If the visibility is 11 miles, what is the earliest time you can expect to see New Haven Light?	The light is visible at 0352.	0414	<b>0443</b>	You will not sight the light.																												
731	While on a heading of 082°T, you sight Middle Ground Light in line with Old Field Point Light bearing 206° per standard magnetic compass. From this you can determine the _____.	variation	<b>deviation table is correct for that heading</b>	compass error is 17.5°E	deviation is 3.5°E for a bearing of 206° per standard magnetic compass																												
732	The maximum ebb current at a location 4.3 miles south of Stratford Point will occur at 0413. The predicted current will be 1.0 knot at 075°. What will be your course made good if you steer 082°T at 8 knots?	<b>081°T</b>	083°T	085°T	087°T																												
733	The characteristic of Branford Reef Light is _____.	flashing red every 4 seconds	flashing red every 3 seconds	<b>flashing white every 6 seconds</b>	flashing yellow every 4 seconds																												

734	At 0415, you take the following bearings:  Stratford Point Light 329.5°pgc Middle Ground Light 223.5°pgc Old Field Point Light 199.5°pgc  Which statement is TRUE?	<b>You are to the right of your intended track line.</b>	The current's drift is greater than predicted.	The course made good since 0352 is 081°T.	Your fathometer reads about 76 fathoms.
735	If you change course at 0420, what is the course to make good to leave Twenty Eight Foot Shoal Lighted Buoy abeam to port at 1 mile?	079°T	082°T	<b>084°T</b>	086°T
736	At 0430, you take the following bearings:  Stratford Point Light bearing 307° pgc Middle Ground Light bearing 239° pgc  What is your 0430 position?	LAT 41°08.9'N, LONG 73°00.0'W	LAT 41°05.0'N, LONG 73°01.1'W	LAT 41°05.5'N, LONG 72°59.7'W	<b>LAT 41°05.8'N, LONG 73°00.8'W</b>
737	From your 0430 position, what is the course per standard magnetic compass to a position where Twenty-eight foot Shoal lighted buoy "TE" is abeam to port at 1 mile?	082.5°	086.0°	098.0°	<b>101.5°</b>
738	By 0430, the wind has increased, and the visibility cleared due to passage of a front. You estimate 3° leeway due to NW'ly winds. What is the course per gyrocompass to pass 1.2 miles due south of Twenty-eight Foot Shoal Lighted Buoy "TE"?	<b>080°</b>	083°	086°	090°
739	At 0430, you change course and speed to make good 090°T at 10 knots. At 0433, you slow due to an engineering casualty and estimate you are making good 5.5 knots. At what time will Branford Reef Light bear 000°T?	0601	<b>0609</b>	0620	0624
740	What is the approximate distance to New Bedford, MA, from your 0530 DR position, if your 0352 position was 7 miles from Bridgeport, CT?	77 miles	91 miles	<b>104 miles</b>	115 miles
741	At 0550, engineering repairs are complete and speed is increased to 9.6 knots. At 0630, Falkner Island Light bears 023°pgc and Horton Point Light bears 097°pgc. From your 0630 fix you steer to make good a course of 086°T while turning for 9.6 knots. At 0700, Falkner Island Light bears 336.0°pgc and Horton Point Light bears 105.5°pgc. The radar range to the south tip of Falkner Island is 5.7 miles. Which statement is TRUE?	Your course made good from 0630 to 0700 was 082°T.	The speed made good from 0630 to 0700 was 10.1 knots.	The current from 0630 to 0700 was 279°T at 0.6 knot.	<b>You are making good your intended speed.</b>
742	The south shore of Long Island Sound from Horton Point to Orient Point is _____.	low and marshy	<b>bluff and rocky</b>	marked by sandy beaches and wooded uplands	bound by gradual shoaling

743	If visibility permits, Orient Point Light will break the horizon at a range of about _____.	9.3 miles	10.8 miles	<b>13.9 miles</b>	17.0 miles																												
744	<p>The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel draws 11 feet (3.3 meters), and your height of eye is 24 feet (7.3 meters). Use variation 10°W where necessary. The gyro error is 2°W.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>030°</td> <td>1.5°E</td> </tr> <tr> <td>060°</td> <td>3.0°E</td> </tr> <tr> <td>090°</td> <td>2.5°E</td> </tr> <tr> <td>120°</td> <td>2.0°E</td> </tr> <tr> <td>150°</td> <td>1.0°W</td> </tr> <tr> <td>180°</td> <td>3.0°W</td> </tr> <tr> <td>210°</td> <td>1.0°W</td> </tr> <tr> <td>240°</td> <td>0.0°</td> </tr> <tr> <td>270°</td> <td>0.0°</td> </tr> <tr> <td>300°</td> <td>1.0°E</td> </tr> <tr> <td>330°</td> <td>1.0°E</td> </tr> <tr> <td>360°</td> <td>1.5°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		030°	1.5°E	060°	3.0°E	090°	2.5°E	120°	2.0°E	150°	1.0°W	180°	3.0°W	210°	1.0°W	240°	0.0°	270°	0.0°	300°	1.0°E	330°	1.0°E	360°	1.5°E
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745	<p>At 0410, you take the following bearings:</p> <table> <tr> <td>New Point Comfort Spit Light "2"</td> <td>242°T</td> </tr> <tr> <td>Wolf Trap Light</td> <td>313°T</td> </tr> <tr> <td>Horn Harbor Entrance Light "HH"</td> <td>262°T</td> </tr> </table> <p>What is your 0410 position?</p>	New Point Comfort Spit Light "2"	242°T	Wolf Trap Light	313°T	Horn Harbor Entrance Light "HH"	262°T	<b>LAT 37°21.0'N, LONG 76°08.1'W</b>	LAT 37°21.0'N, LONG 76°08.8'W	LAT 37°21.1'N, LONG 76°07.9'W	LAT 37°21.2'N, LONG 76°08.2'W																						
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746	If the visibility is 5 miles and you are in the red sector, at what distance off should you sight Cape Henry Light?	15 miles	13 miles	11 miles	<b>9 miles</b>																												
747	From your 0410 fix, what is the course per standard magnetic compass to the entrance to York Spit Channel between buoys "37" and "38"?	178°	<b>176°</b>	156°	152°																												
748	You are turning for 9 knots, a westerly wind is causing 3° of leeway, and the current is 320°T at 1.2 knots. What true course should you steer to remain in the northern leg of York Spit Channel?	191°T	<b>194°T</b>	197°T	203°T																												
749	If you are making 8.3 knots over the ground, what is your ETA at the first turning point in York Spit Channel between buoys "29" and "30"?	0444	0456	0508	<b>0522</b>																												
750	Which publication contains the specific information about navigating in York Spit Channel?	Light List	<b>Coast Pilot</b>	Chesapeake Bay Harbor- master's Regulations Manual	Navigator's Manual - Chesapeake Bay																												



751	At 0530, the Coast Guard announces that Chesapeake Channel is closed indefinitely due to a collision occurring in the channel between Trestle "B" and "C" of the Chesapeake Bay Bridge and Tunnel. You exit York Spit Channel, leaving buoy "20" abeam to port at 0.1 mile, and alter course to leave Horseshoe Crossing Lighted Bell Buoy abeam to port at 0.2 mile. What is the course per gyrocompass?	185°pgc	187°pgc	190°pgc	<b>193°pgc</b>
752	After you enter Thimble Shoal Channel, you will alter course to pass between Trestle "A" and "B". Which channel should you use?	Thimble Shoal Main Channel or the South Auxiliary Channel	Any of the channels but keep to the right hand side	<b>The South Auxiliary Channel</b>	Thimble Shoal Main Channel
753	As you pass through the Chesapeake Bay Bridge and Tunnel, you sight Trestle "A" in line bearing 198°pgc. What is the gyro error?	2°E	0°E	<b>2°W</b>	4°W
754	You sighted Trestle "A" in line at 0707 and are steering 108°T. At 0731, Cape Henry Light bears 136°T; Cape Charles Light bears 032.5°T; and Thimble Shoal Tunnel South Light bears 282°T. What was the speed made good between 0707 and 0731?	8.3 knots	<b>8.8 knots</b>	9.2 knots	9.4 knots
755	At 0731, approximately how much water is under your keel?	<b>31 feet (9.4 meters)</b>	45 feet (13.6 meters)	48 feet (14.5 meters)	54 feet (16.4 meters)
756	What is the distance from your 0731 fix to Wilmington, N.C.(LAT 34°14.0'N, LONG 77°57.0'W)?	<b>339 miles</b>	363 miles	402 miles	486 miles
757	You will enter waters governed by the International Rules when _____.	you cross the territorial sea boundary line	abeam of buoy "CBJ"	you cross the boundary of the contiguous zone	<b>Cape Charles Light bears 022°T</b>
758	At 0812, you obtain the following radar information:  Cape Henry Light bearing 287° pgc @ 3.85 nm  What is your 0812 position?	LAT 36°53.7'N, LONG 75°56.0'W	LAT 36°53.8'N, LONG 75°56.1'W	LAT 36°54.5'N, LONG 75°56.2'W	<b>LAT 36°54.6'N, LONG 75°55.8'W</b>
759	At 0812, you are on course 132°T. The standard magnetic compass reads 135°. What should you conclude?	The deviation table is correct for that heading.	You should adjust the magnetic compass.	<b>Your compass may be influenced by a local magnetic disturbance.</b>	The deviation is increasing as you go south.

760	The following questions are based on chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 10 feet (3.1 meters). Your height of eye is 35 feet (10.6 meters). Use 14°W variation where required.																																																																										
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761	At 0345, you set a course to depart New London Harbor. Assuming no set and drift, which standard magnetic compass course must you steer to stay in the middle of the channel?	175°psc	<b>187°psc</b>	190°psc	192°psc																																																																						
762	Which statement regarding the wreck 0.2 mile south of buoys "1" and "2" at the entrance to New London Harbor is TRUE?	The wreck presents a danger to all vessels with drafts in excess of 30 feet (9.1 meters).	The wreck is visible above the sounding datum between the months of March and June.	<b>The wreck is shown on the chart, but its actual existence is doubtful.</b>	The wreck was cleared by wire drag in 1982 and will not appear on future charts.																																																																						
763	At 0530, your position is LAT 41°13.6'N, LONG 72°08.5'W. What is the color of New London Harbor Light?	<b>Red</b>	White	Green	Alternating white and green																																																																						
764	From your 0530 position, you set a course of 271°psc with an engine speed of 9 knots. At 0645, Cornfield Safe-Water Buoy "CF" is abeam to port. What speed have you averaged since 0530?	7.5 knots	<b>8.6 knots</b>	9.0 knots	9.5 knots																																																																						
765	At 0730, your position is LAT 41°10.5'N, LONG 72°32.2'W. From this position you steer course 286°psc with an engine speed of 9.0 knots. What is the approximate depth of water under your keel?	<b>52 feet (15.8 meters)</b>	57 feet (17.3 meters)	62 feet (18.8 meters)	67 feet (20.3 meters)																																																																						
766	The broken magenta line which runs parallel to the shore between Roanoke Point and Mattituck Inlet marks a _____.	pipeline	<b>fish trap area</b>	demarcation line	cable area																																																																						

767	Assuming no current, at what time can you expect to be abeam of Townshend Ledge Lighted Buoy?	0859	0902	0905	<b>0910</b>
768	At 0730, visibility is 5.5 miles. At what time will you lose sight of Horton Point Light?	It is not visible at 0730	<b>0751</b>	0812	0825
769	At 0820, you take the following bearings:  Branford Reef Light bearing 307° true Falkner Island Light bearing 052° true  What are the set and drift since 0730?	Set 052°T, drift 1.1 knots	Set 052°T, drift 1.3 knots	Set 236°T, drift 1.1 knot	<b>Set 236°T, drift 1.3 knots</b>
770	At 0820, you change course to 301°psc and reduce speed to 7.5 knots. At 0900, you take the following visual bearings: Branford Reef Light       023°psc New Haven Light           293°psc Tweed Airport Aerobeacon 332°psc  Your 0900 position is _____.	LAT 41°11.9'N, LONG 72°50.6'W	LAT 41°11.9'N, LONG 72°49.5'W	<b>LAT 41°12.1'N, LONG 72°48.6'W</b>	LAT 41°12.5'N, LONG 72°44.3'W
771	At 0900, the current is flooding in a direction of 350°T at 1.2 knots. If your engines are turning RPMs for 9 knots, which course should you steer per standard magnetic compass to make good a course of 297° true?	<b>302°psc</b>	311°psc	317°psc	319°psc
772	Which chart would you use for more detailed information on New Haven Harbor?	12370	<b>12371</b>	12372	12373
773	What true course and speed did you make good between 0730 and 0900?	273°T, 8.7 knots	<b>277°T, 8.4 knots</b>	279°T, 8.0 knots	284°T, 7.5 knots
774	As you enter the New Haven Outer Channel, you sight the outer range markers in line directly ahead. Your heading at this time is 347°psc. What is your compass deviation by observation?	<b>0.5°East</b>	3.0°East	3.5°West	4.5°East
775	Which course should you change to per standard magnetic compass as you pass SW Ledge Light to remain in the channel?	007°psc	014°psc	<b>021°psc</b>	026°psc

	The following questions are based on chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 12 feet (3.7 meters). Your height of eye is 24 feet (7.3 meters). Use 14°W variation where required.																																
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777	Your position is LAT 40°59.0'N, LONG 73°06.2'W. What is the course per standard magnetic compass to New Haven Harbor Lighted Whistle Buoy "NH"?	035°	046°	049°	<b>052°</b>																												
778	You depart from the position in the previous question at 2114 and make good 12 knots on a course of 040°T. At what time will you sight New Haven Light if the visibility is 11 miles?	The light is visible at 2114.	2140	2152	<b>2159</b>																												
779	At 2142, you take the following bearings:  Stratford Point Light                    331°T Stratford Shoal Middle Ground Light 280°T Old Field Point Light                    223°T  What is your 2142 position?	<b>LAT 41°03.0'N, LONG 73°01.7'W</b>	LAT 41°03.1'N, LONG 73°02.1'W	LAT 41°03.1'N, LONG 73°01.3'W	LAT 41°03.3'N, LONG 73°01.9'W																												
780	What was the speed made good between 2114 and 2142?	12.3 knots	12.0 knots	11.7 knots	<b>11.4 knots</b>																												
781	At 2142, you change course to make good 030°T and increase speed to 14 knots. You rendezvous with another vessel and receive fresh supplies while off New Haven Harbor lighted whistle buoy "NH". What is the light characteristic of this buoy?	..	..	..	..																												

782	At 0109 you get underway, and at 0112 you take the following set of bearings:  Branford Reef Light bearing 051°true Stratford Point Light bearing 258°true  What is your 0112 position?	LAT 41°11.2'N, LONG 72°51.7'W	LAT 41°11.4'N, LONG 72°50.5'W	<b>LAT 41°11.4'N, LONG 72°51.3'W</b>	LAT 41°11.8'N, LONG 72°51.5'W
783	At 0112, what is the approximate depth under the keel?	<b>38 feet (11.5 meters)</b>	47 feet (14.2 meters)	51 feet (15.5 meters)	57 feet (17.3 meters)
784	At 0112, you are on course 124°T and turning for 12.0 knots. What course will you make good if the current is 255°T at 1.2 knots?	132°	<b>129°</b>	120°	118°
785	Branford Reef is _____.	<b>completely submerged at all stages of the tide</b>	a hard sand shoal	surrounded by rocks awash at low water spring tides	a small, low, sandy islet surrounded by shoal water
786	At 0112, the radar range to Branford Reef Light is 2.9 miles. At 0125, the range is 3.6 miles. What is the position of your 0125 running fix if you are steering 124°T at 12 knots?	<b>LAT 41°09.7'N, LONG 72°48.1'W</b>	LAT 41°09.7'N, LONG 72°48.7'W	LAT 41°09.8'N, LONG 72°47.2'W	LAT 41°10.2'N, LONG 72°47.7'W
787	At 0130, your position is LAT 41°09.3'N, LONG 72°46.9'W when you change course to 086°T. If you make good 086°T, what is the closest point of approach to Twenty-Eight Foot Shoal Lighted Buoy?	0.7 mile	<b>0.9 mile</b>	1.1 miles	1.2 miles
788	At 0200, you take the following bearings:  Falkner Island Light 004.5°T Kelsey Pt. Breakwater Lt. 054.0°T Horton Point Light 115.0°T  What were the set and drift from 0130?	260° at 0.5 knot	080° at 1.0 knot	<b>260° at 1.0 knot</b>	There is no current.
789	What is the distance from your 0200 position to the point where Twenty-Eight Foot Shoal lighted buoy is abeam to starboard?	6.6 miles	<b>6.9 miles</b>	7.1 miles	7.3 miles
790	The shoreline along Rocky Point should give a good radar return because _____.	the lookout tower is marked with radar reflectors	of offshore exposed rocks	submerged reefs cause prominent breakers	<b>the shore is bluff and rocky</b>
791	You sight Bartlett Reef Light in line with New London Harbor Light bearing 043°pgc. You are heading 088°pgc and 098.5° per standard magnetic compass at the time of the observation. Which statement is TRUE?	The true heading at the observation was 090°.	<b>The deviation is 1.5°E by observation.</b>	The magnetic compass error is 9.5°W.	The gyro error is 2°E.



800	At 0600 you take the following bearings: Point Judith Light bearing 063°pgc Block Island North Reef Light bearing 144°pgc  What is your 0600 position?	LAT 41°18.1'N, LONG 71°38.3'W	<b>LAT 41°18.3'N, LONG 71°38.7'W</b>	LAT 41°18.4'N, LONG 72°38.1'W	LAT 41°18.5'N, LONG 71°38.9'W
801	What was the current between 0520 and 0600?	201° at 1.0 knot	201° at 1.5 knot	021° at 1.0 knot	<b>021° at 1.5 knots</b>
802	From your 0600 position, what is the course per gyrocompass to leave Watch Hill Light abeam to starboard at 2.0 miles if a southerly wind is producing 3° of leeway?	<b>252°pgc</b>	256°pgc	258°pgc	262°pgc
803	At 0645, Watch Hill Point (left tangent) bears 314.5°T at 2.75 miles. What was the speed made good between 0600 and 0645?	8.1 knots	9.8 knots	<b>10.7 knots</b>	11.4 knots
804	At 0705, you take the following bearings: Watch Hill Light 030.5°pgc Latimer Reef Light 329.0°pgc Race Rock Light 262.0°pgc  What was the true course made good between 0645 and 0705?	252°T	<b>256°T</b>	263°T	266°T
805	At 0705, you change course to head for The Race. You wish to leave Race Rock Light bearing due north at 0.4 mile. If the current is 100°T, at 2.8 knots, and you are turning for 12.0 knots, what course (pgc) should you steer?	250°pgc	255°pgc	<b>263°pgc</b>	267°pgc
806	You are bound for New London. Where will you cross the demarcation line and be governed by the Inland Rules of the Road?	You are already governed by the Inland Rules.	<b>In the Race</b>	Above the Thames River Bridge	You will not be governed by the Inland Rules.
807	In order to check your compasses, you sight North Dumpling Island Light in line with Latimer Reef Light bearing 074° pgc. The helmsman was steering 303°pgc and 315° per standard magnetic compass at the time. Which of the following is TRUE?	<b>The gyro error is still 2°E.</b>	The deviation based on the observation is 15°W.	The magnetic compass error is 12°W.	The true line of the range is 072°.

808	<p>The following questions should be answered using chart 13205TR, Block Island Sound and approaches, and the supporting publications. Your draft is 12 feet (3.6 meters) and your height of eye is 16 feet (4.8 meters). The gyro error is 2°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 15°W for the entire plot.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>MAG</td><td></td></tr> <tr><td>000°</td><td>2.0°E</td></tr> <tr><td>030°</td><td>3.0°E</td></tr> <tr><td>060°</td><td>4.0°E</td></tr> <tr><td>090°</td><td>2.0°E</td></tr> <tr><td>120°</td><td>1.0°E</td></tr> <tr><td>150°</td><td>1.0°W</td></tr> <tr><td>180°</td><td>2.0°W</td></tr> <tr><td>210°</td><td>3.5°W</td></tr> <tr><td>240°</td><td>3.0°W</td></tr> <tr><td>270°</td><td>3.5°W</td></tr> <tr><td>300°</td><td>0.0°</td></tr> <tr><td>330°</td><td>1.5°E</td></tr> </tbody> </table>					HDG	DEV	MAG		000°	2.0°E	030°	3.0°E	060°	4.0°E	090°	2.0°E	120°	1.0°E	150°	1.0°W	180°	2.0°W	210°	3.5°W	240°	3.0°W	270°	3.5°W	300°	0.0°	330°	1.5°E
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809	<p>At 0520 you take the following observations:</p> <p>Point Judith Light 036°pgc  Point Judith Harbor of Refuge Main Breakwater Center Light 312°pgc</p> <p>What is the position of your 0520 fix?</p>	<p><b>LAT 41°20.8'N, Long 71°29.7'W</b></p>	<p>LAT 41°20.8'N, Long 71°30.0'W</p>	<p>LAT 41°20.6'N, Long 71°30.0'W</p>	<p>LAT 41°20.5'N, Long 71°29.8'W</p>																												
810	<p>Point Judith Harbor of Refuge _____.</p>	<p>is used mostly by towing vessels</p>	<p>has a maximum depth of 14 feet (4.3 meters) at MHW</p>	<p>West Gap has a controlling depth of 24 feet</p>	<p><b>is entered through the East Gap or the West Gap</b></p>																												
811	<p>At 0520, you are on course 243°pgc at 12 knots. What is the course per standard magnetic compass?</p>	<p>262°psc</p>	<p><b>258°psc</b></p>	<p>233°psc</p>	<p>227°psc</p>																												
812	<p>The coastline between Point Judith and Watch Hill is _____.</p>	<p>marked by waterfalls from the highland ponds</p>	<p>low and marshy</p>	<p><b>sandy and broken by rocky points</b></p>	<p>heavily forested</p>																												
813	<p>In clear weather, you will lose sight of Point Judith Light at what distance? (use charted range of 20 miles as nominal range)</p>	<p><b>14.0 nm</b></p>	<p>12.6 nm</p>	<p>10.3 nm</p>	<p>9.2 nm</p>																												
814	<p>At what time will you cross the 60 foot curve if you make good 12 knots?</p>	<p><b>0527</b></p>	<p>0534</p>	<p>0541</p>	<p>0544</p>																												



815	The two wavy magenta lines running to Green Hill Point represent _____.	recommended approaches to Green Hill Point	<b>submarine cables</b>	prohibited fishing areas	fish trap areas
816	At 0600 you take the following bearings:  Point Judith Light bearing 064°pgc Block Island North Reef Light bearing 142°pgc  What is your 0600 position?	LAT 41°17.1'N, LONG 71°38.3'W	LAT 41°17.3'N, LONG 71°38.7'W	LAT 41°17.4'N, LONG 72°38.1'W	<b>LAT 41°17.6'N, LONG 71°38.9'W</b>
817	What was the current between 0520 and 0600?	178° at 0.8 knot	178° at 1.2 knot	358° at 0.8 knot	<b>358° at 1.2 knots</b>
818	From your 0600 position, what is the course per gyrocompass to leave Watch Hill Light abeam to starboard at 2.0 miles if a southerly wind is producing 3° of leeway?	251°pgc	254°pgc	257°pgc	<b>261°pgc</b>
819	At 0645, Watch Hill Point (left tangent) bears 316.5°pgc at 2.75 miles. What was the speed made good between 0600 and 0645?	8.1 knots	9.8 knots	<b>10.3 knots</b>	11.4 knots
820	At 0705, you take the following bearings:  Watch Hill Light 034.5°pgc Latimer Reef Light 338.0°pgc Race Rock Light 268.0°pgc  What was the true course made good between 0645 and 0705?	<b>253°T</b>	256°T	263°T	266°T
821	At 0705, you change course to head for The Race. You wish to leave Race Rock Light bearing due north at 0.4 mile. If the current is 110°T, at 2.8 knots, and you are turning for 12.0 knots, what course (pgc) should you steer?	252°pgc	257°pgc	265°pgc	<b>271°pgc</b>
822	You are bound for New London. Where will you cross the demarcation line and be governed by the Inland Rules of the Road?	You are already governed by the Inland Rules.	Above the Thames River Bridge	<b>In the Race</b>	You will not be governed by the Inland Rules.
823	In order to check your compasses, you sight North Dumpling Island Light in line with Latimer Reef Light bearing 077°pgc. The helmsman was steering 307°pgc and 320° per standard magnetic compass at the time. Which statement is TRUE?	The gyro error by observation is 2°E.	The deviation based on the observation is 15°W.	<b>The magnetic compass error is 14°W.</b>	The true line of the range is 079°.

	The following questions should be answered using chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. The draft of your vessel is 8.5 feet (2.6 meters). Gyro error is 3°E. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 14°W for the entire plot.				
	DEVIATION TABLE				
	HDG MAG	DEV			
824	000°	0°			
	030°	1°W			
	060°	2°W			
	090°	4°W			
	120°	2°W			
	150°	1°W			
	180°	1°E			
	210°	2°E			
	240°	3°E			
	270°	3°E			
	300°	2°E			
	330°	1°E			
825	What type of bottom is found at Long Sand Shoal?	Rocky	Hard	Sandy	Muddy
826	You are southeast of Saybrook Breakwater Light passing a horizontally-banded buoy. This buoy marks _____.	a sunken wreck	a tide rips area	the junction with the Connecticut River	shoal water
827	At 0005, on 26 January, your position is LAT 41°11.8'N, LONG 72°20.5'W. From this position, you plot a course to a position one mile North of Mattituck Breakwater Light "MI". If there are no set and drift, what course should you steer per gyro compass?	219°pgc	222°pgc	225°pgc	228°pgc
828	You are turning for 9 knots on course 230°T. At 0023, Horton Point Light bears 208°pgc. At 0053, Horton Point Light bears 126°pgc. What is the position of your 0053 running fix?	LAT 41°05.7'N, LONG 72°27.6'W	LAT 41°05.8'N, LONG 72°28.1'W	LAT 41°05.9'N, LONG 72°27.4'W	LAT 41°06.0'N, LONG 72°28.2'W
829	At 0100, your position is LAT 41°05.3 N, LONG 72°29.2 W. You head for the position one mile north of Mattituck Inlet Light and turn to make good 9.0 knots. If the visibility is about 2 miles, at what approximate time will you sight the light?	The light is visible at 0100	0109	0120	0128
830	At 0125, Mattituck Inlet Light bears 203°pgc at 2.1 miles. What is the approximate depth of the water under the keel?	46 fathoms (83.6 meters)	44 fathoms (80.0 meters)	43 feet (13.0 meters)	38 feet (11.5 meters)

831	At 0125, you change course to make good 280°T. What is the course per standard magnetic compass?	290°psc	<b>292°psc</b>	294°psc	296°psc
832	If the current is 050° at 0.9 knot, and a northerly wind causes 3° of leeway. What is the course to steer per gyro compass to make good 280°T if you are turning for 9 knots?	284°pgc	279°pgc	<b>276°pgc</b>	273°pgc
833	At 0200, you take the following bearings:  Mattituck Inlet Light bearing 125°pgc Falkner Island Light bearing 355°pgc  What is the position of your 0200 fix?	<b>LAT 41°03.9'N, LONG 72°38.9'W</b>	LAT 41°03.8'N, LONG 72°39.1'W	LAT 41°03.7'N, LONG 72°38.5'W	LAT 41°03.5'N, LONG 72°38.8'W
834	From your 0200 position, you change course to 272°pgc. How far north of Stratford Shoal Middle Ground Light does this track pass?	<b>2.1 miles</b>	1.6 miles	1.3 miles	1.0 miles
835	What is your ETA at a point where Stratford Shoal Middle Ground Light bears 180°T if you make good 9.0 knots?	0409	<b>0416</b>	0425	0433
836	You anticipate a maximum flood current north of Stratford Shoal. You will be set in which general direction?	Northerly	Easterly	Southerly	<b>Westerly</b>
837	Stratford Shoal Middle Ground Light is _____.	13 foot high	a fixed white light	shown from a white tower	<b>equipped with a HORN</b>
838	After you raise Stratford Shoal Middle Ground Light, how will the bearings change if you pass to the north of the light?	<b>The bearings will change to the left.</b>	The bearings will remain steady.	The bearings will change to the right.	Magnetic compass bearings will change to the left and gyro compass bearings will change to the right.
839	What is the approximate distance from a point three miles south of Stratford Point to Perth Amboy, NJ?	53 miles	62 miles	<b>73 miles</b>	136 miles

840	The following questions should be answered using chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. The height of eye is 25 feet (7.6 meters). The gyro error is 3°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 10°W for the entire plot.																																
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841	The National Weather Service provides 24-hour weather broadcasts to vessels transiting the Chesapeake Bay Bridge Tunnel. The broadcasts may be found on _____.	202.35 MHz	181.15 MHz	<b>162.55 MHz</b>	147.45 MHz																												
842	At 1752, your position is LAT 37°04.3'N, LONG 76°06.4'W. On an ebb current you should expect to be set to the _____.	north northeast	<b>south southeast</b>	south southwest	north northwest																												
843	Your 1752 position is _____.	less than 0.2 mile to the west of York Spit Channel	less than 0.2 mile to the east of York Spit Channel	<b>more than 0.2 mile to the west of York Spit Channel</b>	more than 0.2 mile to the east of York Spit Channel																												
844	What is the average velocity of the maximum ebb current in the channel west of Middle Ground?	0.8 knot	1.0 knot	<b>1.3 knots</b>	1.6 knots																												
845	From your 1752 position, you steer 313°pgc at 9 knots. At 1805, you obtain the following visual bearings: Old Pt. Comfort Light - 238°pgc. Chesapeake Bay Tunnel North Light - 136°pgc. What are the latitude and longitude of your 1805 position?	<b>LAT 37°05.9'N, LONG 76°08.0'W</b>	LAT 37°06.0'N, LONG 76°08.4'W	LAT 37°05.0'N, LONG 76°08.7'W	LAT 37°06.1'N, LONG 76°08.1'W																												
846	At 1810, a red buoy bears 010° relative. This buoy marks _____.	the side of York Spit Channel	the visibility limit of the red sector of Cape Henry Light	a submerged obstruction in York Spit Channel	<b>the York River Entrance Channel</b>																												

847	Based on dead reckoning, at approximately 1817 you would expect to _____.	enter a traffic separation zone	depart a restricted area	cross a submerged pipeline	<b>depart a regulated area</b>
848	At 1845, you obtain the following Radar Ranges:  Old Plantation Flats Light @ 7.45nm New Point Comfort Spit Light "2" @ 7.35nm  Your latitude is _____.	37°11.4'N	<b>37°11.2'N</b>	37°10.9'N	37°10.7'N
849	Your 1900 position is LAT 37°12.9'N, LONG 76°13.5'W. You change course to 323°pgc. What is the course per standard magnetic compass?	309°psc	311°psc	<b>329°psc</b>	331°psc
850	If the visibility is 5 miles, what is the luminous range of New Point Comfort Spit Light "4"?	0.5 mile	<b>3.4 miles</b>	4.8 miles	5.0 miles
851	The yellow buoys on either side of your vessel that lead to Mobjack Bay mark _____.	the limits of the dredged channel	<b>fish trap areas</b>	underwater cable areas	ferry routes
852	At 1925, you take a fix using the following radar ranges: York Spit Light - 3.4 miles away; New Point Comfort Spit Light "2" - 2.1 miles away; York Spit Swash Channel Light "3" - 2.7 miles away. Your longitude is _____.	<b>76°16.6'W</b>	76°16.8'W	76°17.0'W	76°17.2'W
853	What was the speed made good from 1900 to 1925?	8.5 knots	8.7 knots	8.8 knots	<b>9.1 knots</b>
854	What is the height above water of New Point Comfort Spit Light "2"?	6 feet (1.8 meters)	15 feet (4.6 meters)	<b>18 feet (5.5 meters)</b>	24 feet (7.3 meters)
855	If you have 16.3 miles to reach your destination from your 2000 position and want to be there at 2230, what speed should you make good?	5.7 knots	6.1 knots	<b>6.5 knots</b>	6.9 knots

The following questions should be answered using chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. The draft of your vessel is 8.0 feet. The gyro error is 2°W. You are heading down the York River bound for Norfolk, VA. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 10°W for the entire plot.

DEVIATION TABLE

HDG    DEV  
MAG

856

000°    0°  
030°    1°W  
060°    2°W  
090°    4°W  
120°    2°W  
150°    1°W  
180°    1°E  
210°    2°E  
240°    3°E  
270°    3°E  
300°    2°E  
330°    1°E

857	At 1730, your position is LAT 37°13.9'N, LONG 76°26.4'W. What is your distance off Tue Marshes Light?	2.2 miles	<b>2.6 miles</b>	3.0 miles	3.4 miles
858	What is the maximum allowable speed of vessels underway up river from Tue Marshes Light?	8 knots	10 knots	<b>12 knots</b>	14 knots
859	At 1750, your position is LAT 37°14.5'N, LONG 76°22.9'W. What was the speed made good between 1730 and 1750?	7.5 knots	7.8 knots	8.1 knots	<b>8.7 knots</b>
860	At 1800, Tue Marshes Light bears 270°pgc, and York Spit Swash Channel Light "3" bears 007°pgc. Your position is _____.	LAT 37°14.0'N, LONG 76°19.8'W	LAT 37°14.2'N, LONG 76°20.3'W	<b>LAT 37°14.2'N, LONG 76°20.1'W</b>	LAT 37°14.5'N, LONG 76°20.0'W
861	The short-long dashed, magenta lines parallel to York River Entrance Channel mark _____.	<b>fish trap areas</b>	naval exercise areas	underwater cables	recommended track lines
862	You have just passed York River Entrance Channel Lighted Buoys "13" and "14". The chart shows a light approximately 1.0 mile off your port beam with a light characteristic "Fl 6 sec". What is the name of this light?	Mobjack Bay Entrance Light	<b>York Spit Light</b>	New Point Comfort Spit Light "4"	York River Entrance Channel Light "1"

863	At 1930, your vessel is between York River Entrance Channel Lighted Buoys "1YR" and "2". From this position, you change course to 142°pgc at an engine speed of 8.0 knots. At 2000, you take the following bearings: Chesapeake Channel Tunnel North Light - 131°pgc Thimble Shoal Light - 247°pgc What were the set and drift between 1930 and 2000?	140°T at 0.2 knot	<b>140°T at 0.4 knot</b>	320°T at 0.2 knot	320°T at 0.4 knot
864	At 2013, you sight Thimble Shoal Light in line with Old Point Comfort Light bearing 258°pgc. At the time of the bearing, the vessel was headed 142°pgc and 151°psc. Based on this, you _____.	know the gyro error is 2°E	should adjust the magnetic compass	verified that the variation is 10°W	<b>have checked the deviation table for a magnetic heading of 150°</b>
865	At 2015, your vessel is at the Chesapeake Bay Bridge and Tunnel midway between buoys "13" and "14". If the height of tide is -1 foot (-.3 meter). What is the approximate depth under the keel?	51 feet (15.5 meters)	<b>45 feet (13.6 meters)</b>	40 feet (12.1 meters)	35 feet (10.6 meters)
866	If you steer 143°pgc at an engine speed of 8.0 knots from your 2015 position, at what time would you reach a point midway between buoys "11" and "12" (ignore set and drift)?	2020	<b>2029</b>	2032	2039
867	Which statement concerning Thimble Shoal Channel is TRUE?	<b>The project width of the main channel is 1000 feet (304.8 meters)</b>	The channel is 14.5 miles in length.	A tow drawing 30 feet (9.1 meters) is excluded from the main channel.	Thimble Shoal Channel is in international waters.
868	At 2118, you obtain the following information: Cape Henry Light 151°pgc; Cape Charles Light 033°pgc; Thimble Shoal Light 291°pgc  What is your 2118 position?	<b>LAT 36°57.4'N, LONG 76°01.9'W</b>	LAT 36°57.5'N, LONG 76°01.4'W	LAT 36°57.6'N, LONG 76°01.8'W	LAT 36°57.6'N, LONG 76°02.2'W
869	From your 2118 position, you proceed to Norfolk, VA, a distance of approximately 26.0 miles. To arrive at Norfolk by 0200 the next day, what is the minimum speed to make good from your 2118 position to arrive at this time?	5.0 knots	5.3 knots	5.8 knots	<b>5.5 knots</b>
870	From your 2118 position, you steer a course of 288°T at an engine speed of 7.0 knots. Visibility is 2 miles. Height of eye is 12 feet (3.7 meters). At what time can you expect Old Point Comfort Light to become visible again?	The light is visible at 2118	2139	2201	<b>2232</b>
871	When exiting Thimble Shoal Channel bound for Norfolk, the track line based on the lights of the Norfolk Entrance Reach Range is _____.	220°T	222°T	<b>225°T</b>	228°T

<b>872</b>	The following questions should be answered using chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. On 31 July, you are anchored at LAT 37°22.4' N, LONG 75°39.9' W. You get underway at 0240 enroute to Yorktown, VA. The draft of your vessel is 9.0 feet (2.75 meters). The gyro error is 2°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 10°W for the entire plot.																																																																					
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<b>873</b>	What is the course per gyro compass from the anchorage to point A located 0.5 mile east of Cape Charles Lighted Bell Buoy 14?	180°	<b>184°</b>	198°	199.5°																																																																	
<b>874</b>	If your engines turn for 6.5 knots, and you encounter a 0.5 knot southerly current after weighing anchor. What is your ETA at point A?	0511	0501	<b>0450</b>	0440																																																																	
<b>875</b>	What is the course to steer per standard magnetic compass from the anchorage to point A, if easterly winds are causing 3° of leeway?	187°	<b>191°</b>	194°	197°																																																																	
<b>876</b>	You are on track from the anchorage to point A. At 0250, Great Machipongo Inlet Light "5" (37°21.8'N, 75°43.7'W) bears 279°pgc. At 0320, the light bears 320°pgc. What is the position of your 0320 running fix if you are making good 6.5 knots?	<b>LAT 37°18.10'N, LONG 75°39.55'W</b>	LAT 37°18.10'N, LONG 75°39.30'W	LAT 37°18.00'N, LONG 75°39.75'W	LAT 37°17.95'N, LONG 75°39.95'W																																																																	
<b>877</b>	What is the approximate depth of water under your keel at 0320?	52 feet (15.8 meters)	48 feet (14.6 meters)	44 feet (13.4 meters)	<b>35 feet (10.6 meters)</b>																																																																	



878	At 0400 you take the following bearings:  Sand Shoal Inlet South Light bearing 299°pgc Cape Charles Light bearing 242°pgc  What is your 0400 position?	LAT 37°14.2'N, LONG 75°39.2'W	<b>LAT 37°14.4'N, LONG 75°39.3'W</b>	LAT 37°14.4'N, LONG 75°39.0'W	LAT 37°14.6'N, LONG 75°39.2'W
879	What was the speed made good from 0240 to 0400?	5.2 knots	5.6 knots	<b>6.0 knots</b>	6.4 knots
880	If you increase speed to 8 knots, and the current is 240° at 0.7 knot. What course should you steer from your 0400 position to arrive at point A?	178°T	180°T	<b>183°T</b>	186°T
881	Which statement about your 0400 position is true?	You are governed by the Inland Rules of the Road.	Anchoring, trawling and fishing are prohibited.	The ocean floor is composed of shingle.	<b>You are within the Territorial Sea and the contiguous zone.</b>
882	At 0600, you are on course 241°psc at 6.5 knots. Chesapeake Light bears 153° per standard magnetic compass, and Cape Henry Light bears 261° per standard magnetic compass. What is the position of your 0600 fix?	LAT 36°59.0'N, LONG 75°47.4'W	<b>LAT 36°59.3'N, LONG 75°47.7'W</b>	LAT 36°59.5'N, LONG 75°47.8' W	LAT 36°59.3'N, LONG 75°48.0' W
883	The abandoned lighthouse at Cape Henry is a(n) _____.	octagonal, black and white tower	radio beacon station	emergency back up to Cape Henry Light	<b>gray, pyramidal tower</b>
884	When Cape Henry Light is abeam, what is the approximate distance to Yorktown, VA?	<b>34 miles</b>	42 miles	55 miles	58 miles
885	As you pass between trestle "B" and trestle "C" of the Chesapeake Bay Bridge - Tunnel, you sight along the trestle "C" when it is in line. The gyro bearing is 048°. What is the gyro error by observation?	4°E	<b>2°E</b>	0°	2°W
886	On either side of York River Entrance Channel, there are areas bounded by short - long magenta lines and marked by yellow buoys. These areas are _____.	<b>fish trap areas</b>	designated anchorages	spoil areas	naval exercise areas
887	The wind is northerly and will cause 2° leeway. The current is 018° at 0.5 knot. If your engines are turning for 8.0 knots. What should you steer to remain in York River Entrance Channel?	304°T	306°T	<b>309°T</b>	314°T

The following questions should be answered using chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. On 31 July, you are anchored at LAT 37°22.4' N, LONG 75°39.9' W. You get underway at 0240 enroute to Yorktown, VA. The draft of your vessel is 9.0 feet (2.75 meters). The gyro error is 2°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 10°W for the entire plot.

DEVIATION TABLE

HDG    DEV  
MAG

888

000°    1.5°E  
030°    2.0°E  
060°    1.0°E  
090°    0°  
120°    1.0°W  
150°    1.5°W  
180°    2.5°W  
210°    1.5°W  
240°    1.0°W  
270°    0.5°W  
300°    0°  
330°    0.5°E

889	What is the course per standard magnetic compass from the anchorage to point "A" located 0.5 mile east of Cape Charles Lighted Bell Buoy 14?	185°	188°	191°	194°
890	The coast between Great Machipongo Inlet and Cape Charles is _____.	composed of high rocky bluffs and wooded uplands	marked by prominent isolated barren hills	broken by the mouths of several major rivers	low with sandy beaches bordered by marshes
891	What is the distance from the anchorage to point "A"?	13.9 miles	15.1 miles	15.9 miles	17.0 miles
892	If your engines are turning for 6.5 knots and the estimated current is north at 0.5 knot. What is the ETA at point "A"?	0511	0501	0450	0440
893	What is the course to steer per gyro compass from the anchorage to point "A" if westerly winds are causing 3° of leeway?	178°pgc	182°pgc	184°pgc	187°pgc
894	At 0400, you take the following bearings:  Sand Shoal Inlet South Light bearing 305°pgc Cape Charles Light bearing 241°pgc  What was the course made good since 0240?	181°T	184°T	189°T	192°T

895	The visibility is about 5 miles. Which statement about Cape Charles Light is TRUE?	The light has been visible from the time you departed the anchorage.	<b>You should see Cape Charles Light at about 0400.</b>	The light will become visible when you enter the inbound leg of the traffic separation scheme.	The light will not be visible until you are within 5 miles of the light.
896	At 0405, you increase speed and at 0500 your position is LAT 37°06.0'N, LONG 75°41.1'W. What is the approximate depth of water?	46 feet (13.9 meters)	<b>54 feet (16.4 meters)</b>	62 feet (18.8 meters)	66 feet (20.0 meters)
897	If you proceed from your 0500 position to Chesapeake Bay via the inbound traffic lane. What is the distance to Yorktown, VA?	34.0 miles	42.6 miles	<b>51.7 miles</b>	62.1 miles
898	From your 0500 position, you change course to 221°T and order turns for 9.8 knots. At 0600 Chesapeake Light bears 143°pgc at a radar range of 6.5 miles. Cape Henry Light bears 252°pgc. What is the position of your 0600 fix?	LAT 36°59.1'N, LONG 75°48.1'W	LAT 36°59.1'N, LONG 75°47.6'W	<b>LAT 36°59.2'N, LONG 75°47.8'W</b>	LAT 36°58.9'N, LONG 75°48.5'W
899	From your 0600 fix, you change course to 250°T. At 0605, Cape Henry Light bears 250°T. At 0615, it bears 251°T. At 0625, it bears 252°T. Based on this you know you are _____.	<b>being set to the south</b>	being set to the north	meeting a current from dead ahead	running with a current from dead astern
900	Weather broadcasts for the Norfolk area are broadcast on what frequency?	162.25 MHz	162.30 MHz	<b>162.55 MHz</b>	162.65 MHz
901	Why should mariners use extreme care when navigating within the precautionary area centered on Chesapeake Bay Entrance Junction Lighted Gong Buoy CBJ?	There are numerous underwater obstructions that are a hazard to vessels with drafts exceeding 2 meters (6.5 feet).	Fishing vessels of limited maneuverability routinely operate in this area when hunting oyster and crabs.	<b>Vessels may approach from different directions from the inbound traffic lanes and from Chesapeake and Thimble Shoal Channel.</b>	Large naval vessels having the right of way often enter the area when bound to or from the Norfolk Naval Base.
902	As you pass between Trestle B and Trestle C of the Chesapeake Bay Bridge - Tunnel, you sight along Trestle C when it is in line. The gyro bearing is 051°. What is the gyro error by observation?	4°E	2°E	0°	<b>2°W</b>
903	The wind is westerly and will cause 2° of leeway. The current is 180° at 0.5 knot. If your engines are turning for 8.0 knots, what should you steer to remain in York River Entrance Channel?	304°T	307°T	<b>311°T</b>	314°T

The following questions should be answered using chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. On 31 July, you are anchored at LAT 37°22.4' N, LONG 75°39.9' W. You get underway at 0240 enroute to Yorktown, VA. The draft of your vessel is 9.0 feet (2.75 meters). The gyro error is 2°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 10°W for the entire plot.

DEVIATION TABLE

HDG MAG	DEV
000°	1.5°E
030°	2.0°E
060°	1.0°E
090°	0°
120°	1.0°W
150°	1.5°W
180°	2.5°W
210°	1.5°W
240°	1.0°W
270°	0.5°W
300°	0°
330°	0.5°E

904					
905	What is the course per standard magnetic compass from the anchorage to point A located 0.5 mile east of Cape Charles Lighted Bell Buoy 14?	194°psc	190°psc	187°psc	180°psc
906	The coast between Great Machipongo Inlet and Cape Charles is _____.	broken by the mouths of several major rivers	low, with sandy beaches bordered by marsh and woodlands	marked by prominent, isolated, barren hills	composed of high, rocky bluffs and wooded uplands
907	If your engines turn for 6.5 knots, and you encounter a 0.5 knot southerly current, what is your ETA at point A?	0400	0450	0501	0511
908	What is the course to steer per gyro compass from the anchorage to point "A" if easterly winds are causing 3° of leeway?	178°pgc	181°pgc	185°pgc	189°pgc
909	At 0250, Great Machipongo Inlet Light "5" (37°21.8'N, 75°43.7'W) bears 279°pgc. At 0320, the light bears 320°pgc. If you are making good 6.5 knots, what is the position of your 0320 running fix?	LAT 37°17.95'N, LONG 75°39.95'W	LAT 37°18.00'N, LONG 75°39.75'W	LAT 37°18.10'N, LONG 75°39.30'W	LAT 37°18.10'N, LONG 75°39.55'W

910	At 0400, you obtain the following information:  Sand Shoal Inlet South Light bearing 303° true @ 7.1nm  What is your 0400 position?	LAT 37°14.2'N, LONG 75°40.7'W	LAT 37°14.1'N, LONG 75°41.3'W	LAT 37°14.1'N, LONG 75°40.5'W	<b>LAT 37°14.0'N, LONG 75°40.7'W</b>
911	The visibility is about 5 miles. Which statement about Cape Charles Light is TRUE?	The light has been visible since you departed the anchorage.	You will not see the light until you are within 5 miles of the light.	<b>The light will become visible about 0400.</b>	The light will not be visible until you enter the inbound leg of the traffic separation scheme.
912	Which statement about your 0400 position is TRUE?	<b>You are within the territorial sea and contiguous zone.</b>	You are governed by the Inland Rules of the Road.	The ocean floor is composed of shale.	Anchoring, trawling and fishing are prohibited.
913	At 0405, you increase speed. At 0500, your position is LAT 37°06.0'N, LONG 75°41.1'W. What is the approximate depth of the water under the keel?	66 feet (20.0 meters)	62 feet (18.8 meters)	54 feet (16.4 meters)	<b>46 feet (13.9 meters)</b>
914	At 0600, you are entering the inbound leg of the traffic separation scheme at position LAT 36°59.2'N, LONG 75°47.6'W. Course is 250°T. At 0605, Cape Henry Light bears 249°T. At 0610, it bears 248°T. At 0625, it bears 247°T. Based on this, you know you are _____.	meeting a current from dead ahead	running with a current from dead ahead	<b>being set to the north</b>	being set to the south
915	The abandoned lighthouse at Cape Henry is a(n) _____.	<b>gray, pyramidal tower</b>	mound of broken rubble	octagonal, black and white tower	black, skeleton structure
916	Weather broadcasts for the Norfolk area are broadcast on which frequency?	162.30 MHz	162.35 MHz	162.50 MHz	<b>162.55 MHz</b>
917	When Cape Henry Light is abeam, what is the approximate distance to Yorktown?	58 miles	55 miles	42 miles	<b>34 miles</b>
918	As you pass between trestle "B" and trestle "C" of the Chesapeake Bay Bridge - Tunnel, you sight along the trestle "C" when it is in line. The trestle bears 057° per standard magnetic compass while the vessel is heading 320°T. From this you know the _____.	<b>vessel should be swung to check the deviation table</b>	compass error is 12°W	deviation table is correct for that bearing	deviation is 10°W
919	The wind is easterly and will cause 2° of leeway. The current is 180° at 0.5 knot. If your engines are turning for 8.0 knots, what should you steer to remain in York River Entrance Channel?	304°T	307°T	310°T	<b>315°T</b>

	The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel draws 11 feet (3.3 meters), and your height of eye is 24 feet (7.3 meters). Use variation 10°W where necessary. The gyro error is 2°W.																																
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921	At 0410, you take the following bearings: New Point Comfort Spit Light "2" 244°pgc Wolf Trap Light 315°pgc What is your 0410 position?	LAT 37°21.2'N, LONG 76°08.3'W	LAT 37°21.1'N, LONG 76°08.8'W	LAT 37°21.1'N, LONG 76°07.9'W	<b>LAT 37°21.0'N, LONG 76°08.1'W</b>																												
922	If the visibility is 10 miles and you are in the red sector, at what distance off should you sight Cape Henry Light?	<b>15 miles</b>	12 miles	10 miles	8 miles																												
923	From your 0410 fix, what is the course per standard magnetic compass to enter York Spit Channel with buoy "29" close abeam to starboard?	172°psc	176°psc	<b>198°psc</b>	202°psc																												
924	If you are making 8.3 knots over the ground, what is your ETA at the turning point in York Spit Channel at buoy "29"?	<b>0521</b>	0509	0459	0448																												
925	You are entering the channel at buoy 29 and turning for 9 knots. An easterly wind is causing 3° of leeway and the current is 320°T at 1.2 knots. What true course should you steer to remain in the middle leg of York Spit Channel?	162°T	<b>165°T</b>	168°T	171°T																												
926	Which publication contains specific information on the characteristics of Chesapeake Bay entrance?	Sailing Directions	<b>Coast Pilot</b>	Chesapeake Bay Harbor-master's Manual	Navigator's Manual - Chesapeake Bay																												

927	The Coast Guard announces that Chesapeake Channel is closed indefinitely due to a collision in the channel between Trestle "B" and "C" of the Chesapeake Bay Bridge and Tunnel. You exit York Spit Channel, leaving buoy "22" close abeam to port at 0.1 mile, and alter course to leave Horseshoe Crossing Lighted Bell Buoy "HC" abeam to port at 0.2 mile. What is the course per gyrocompass?	185°pgc	188°pgc	191°pgc	194°pgc
928	After you enter Thimble Shoal Channel, you will alter course to pass between Trestle "A" and "B". Based upon your present position, passing buoy "12" to port, what is TRUE?	You are required to proceed outbound in the North Auxiliary Channel to avoid ferry traffic	You may proceed outbound in Thimble Shoal Channel	<b>You should cross the main channel and proceed outbound in the South Auxiliary Channel</b>	Water depth is 38 feet.
929	As you pass through the Chesapeake Bay Bridge and Tunnel, you sight Trestle "B" in line bearing 018°pgc. What is the gyro error by observation?	2°E	0°	2°W	4°W
930	You sighted Trestle "B" in line at 0706 and are steering 108°T. At 0731, Cape Henry Light bears 136°T; Cape Charles Light bears 032.5°T; and Thimble Shoal Tunnel South Light bears 282°T. What was the speed made good between 0706 and 0731?	8.3 knots	8.8 knots	9.2 knots	9.4 knots
931	At 0731, what is the approximate depth of water?	31 feet (9.4 meters)	<b>41 feet (12.5 meters)</b>	52 feet (15.7 meters)	58 feet (17.6 meters)
932	What is the coastwise distance from your 0731 fix to Wilmington, DE (LAT 39°43.2'N, LONG 75°31.5'W)?	339 miles	309 miles	245 miles	<b>221 miles</b>
933	You will enter waters governed by the International Rules when _____.	you cross the territorial sea boundary line	enter the pilotage area	you cross the boundary of the contiguous zone	<b>Cape Henry Light bears 202°T</b>
934	At 0812 you obtain the following information:  Chesapeake Light bearing 091° true @ a range of 10.5 nm  What is your 0812 position?	LAT 36°53.7'N, LONG 75°56.0'W	LAT 36°53.8'N, LONG 75°56.1'W	<b>LAT 36°54.4'N, LONG 75°55.9'W</b>	LAT 36°54.6'N, LONG 75°55.8'W
935	At 0812, you are on course 132°T. The standard magnetic compass reads 135°. What should you conclude?	The deviation table is correct for that heading.	<b>Your compass may be influenced by a local magnetic disturbance.</b>	You should adjust the magnetic compass.	The deviation is increasing as you go south.

<p>The following questions are based on chart 13205TR, Block Island Sound, and the supporting publications. Your vessel has a draft of 11 feet (3.4 meters). Your height of eye is 32 (9.7 meters). The gyro error is 2°W. Use 15°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>MAG</td><td></td></tr> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1°W</td></tr> <tr><td>060°</td><td>2°W</td></tr> <tr><td>090°</td><td>4°W</td></tr> <tr><td>120°</td><td>2°W</td></tr> <tr><td>150°</td><td>1°W</td></tr> <tr><td>180°</td><td>1°E</td></tr> <tr><td>210°</td><td>2°E</td></tr> <tr><td>240°</td><td>3°E</td></tr> <tr><td>270°</td><td>3°E</td></tr> <tr><td>300°</td><td>2°E</td></tr> <tr><td>330°</td><td>1°E</td></tr> </tbody> </table>						HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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937	At 0227, you take the following radar ranges and bearings: Bartlett Reef Light 359°T at 2.4 miles, Race Rock Light 083°T at 4.1 miles. What is your 0227 position?	LAT 41°14.5'N, LONG 72°08.0'W	<b>LAT 41°14.1'N, LONG 72°08.2'W</b>	LAT 41°14.0'N, LONG 72°08.5'W	LAT 41°14.3'N, LONG 72°08.5'W																												
938	At 0227, you are on course 087°T at 10 knots. What course per standard magnetic compass should you steer to make good your true course?	109°psc	<b>105°psc</b>	102°psc	099°psc																												
939	You estimate that you are making 9.3 knots over the ground. At what time will you enter waters governed by the COLREGS?	0258	0255	<b>0251</b>	0247																												
940	At 0337, fog closes in and you anchor under the following radar ranges and bearing:  South tip of Watch Hill Point 3.0 miles East point of Fishers Island 1.4 miles Latimer Reef Light 331°T  What is the approximate depth of water at your anchorage?	135 feet (40.9 meters)	120 feet (36.4 meters)	<b>100 feet (30.3 meters)</b>	83 feet (25.2 meters)																												



941	By 1015, visibility has increased to 5.0 miles and you can see Fishers Island. Fishers Island has _____.	<b>sparsely wooded hills and is fringed with shoals to the south</b>	sheer cliffs rising from the sea to a high, flat plateau	barren, rocky hills with prominent sandy beaches	low and sandy beaches with salt ponds and marsh grass
942	You get underway at 1030. The wind is out of the SSE and you estimate 3° leeway. What course should you steer per gyrocompass to make good a desired course of 075°T?	<b>080°pgc</b>	078°pgc	076°pgc	074°pgc
943	Shortly after getting underway, you sight Stonington Outer Breakwater Light in line with Stonington Inner Breakwater Light bearing 000° per gyrocompass. Which statement is TRUE?	The deviation is 2°W	The variation is 2°E	The compass error is 16°W	<b>The gyro error is 2.5°W</b>
944	At 1104, Watch Hill Point Light is in line with Stonington Outer Breakwater Light, the range to the south tip of Watch Hill Point is 2.6 miles and the range to the beach is 1.9 miles. You are steering to make good 075°T, speed 10.0 knots. At 1110, you change course to head for a position of LAT 41°05.0'N, LONG 71°50.0'W. What is the true course?	193°	<b>190°</b>	187°	185°
945	At 1110, you increase speed to 12 knots. What is your ETA at the new position?	1220	<b>1215</b>	1208	1157
946	Upon arrival at your new position you would expect Montauk Point Light to be approximately _____ mile(s) from your position.	4.5	2.4	<b>1.3</b>	0.9
947	At 1345, you depart from a position 1 mile due east of Montauk Point Light and set course for Block Island Southeast Light at 9 knots. At 1430, your position is:  Latitude 41° 06.3' North Longitude 071° 41.9' West  What was the current encountered since 1345?	Set 015°, drift 0.5 knot	Set 195°, drift 0.7 knot	Set 015°, drift 0.7 knot	<b>Set 195°, drift 0.5 knot</b>
948	You are encountering heavy weather. What action should you take based on your 1430 fix?	Continue on the same course but increase speed	Continue on the same course at the same speed	Slow to 8.3 knots to compensate for the current	<b>Alter course to the right, to pass well clear of Southwest Ledge</b>
949	At 2100, you set course of 000°T, speed 10 knots from LAT 41°07.0'N, LONG 71°30.0'W. Visibility is 5.5 n.m. What is the earliest time you can expect to sight Point Judith Light? (Use charted range of 20 miles as nominal range.)	The light is visible at 2100.	2106	<b>2111</b>	2123
950	You estimate the current to be 160°T at 1.2 knots. What should your course and speed be in order to make good 000°T at 10 knots?	358°T at 09.8 knots	<b>358°T at 11.1 knots</b>	002°T at 11.2 knots	002°T at 09.9 knots

951	If you want to put into Point Judith Harbor of Refuge, what chart should you use?	13219	13217	13209	13205																										
952	<p>The following questions should be answered using chart number 13205TR, Block Island and Approaches, and supporting publications. You are steering a westerly course and approaching Block Island Sound. The variation for the area is 15°W. The gyro error is 2°E.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG MAG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>0.0°</td></tr> <tr><td>030°</td><td>1.0°W</td></tr> <tr><td>060°</td><td>3.0°W</td></tr> <tr><td>090°</td><td>2.0°W</td></tr> <tr><td>120°</td><td>1.0°W</td></tr> <tr><td>150°</td><td>0.0°</td></tr> <tr><td>180°</td><td>0.0°</td></tr> <tr><td>210°</td><td>1.0°E</td></tr> <tr><td>240°</td><td>2.0°E</td></tr> <tr><td>270°</td><td>1.5°E</td></tr> <tr><td>300°</td><td>1.0°E</td></tr> <tr><td>330°</td><td>0.0°</td></tr> </tbody> </table>					HDG MAG	DEV	000°	0.0°	030°	1.0°W	060°	3.0°W	090°	2.0°W	120°	1.0°W	150°	0.0°	180°	0.0°	210°	1.0°E	240°	2.0°E	270°	1.5°E	300°	1.0°E	330°	0.0°
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953	<p>You are underway in the vicinity of Block Island and obtain the following lines of position:</p> <p>Montauk Point Light 263°pgc  Block Island Southeast Light 026°pgc  Radar Bearing to Block Island Southwest Point 348°pgc</p> <p>What is your position at the time of these sightings?</p>	LAT 41°05.0'N, LONG 71°36.2'W	LAT 41°05.1'N, LONG 71°36.0'W	LAT 41°05.3'N, LONG 71°35.8'W	LAT 41°05.4'N, LONG 71°35.5'W																										
954	What course should you steer by your standard magnetic compass to make good a course of 280°T?	266°psc	272°psc	290°psc	294°psc																										
955	From your position you observe a rotating white and green light to the north. This light is most likely _____.	from a submarine on the surface	the light at Southeast Point	at an airport	on a coastal patrol vessel																										
956	At 1800, your position is LAT 41°06.5'N, LONG 71°43.5'W. How would the buoy which bears approximately 040°T from your position at a range of half a mile be painted?	Horizontally banded, green over red, with a green buoyancy chamber	Horizontally banded, red over green, with a red buoyancy chamber	Vertically striped, red and green	Solid green with red letters "BIS"																										

957	From your 1800 position you steer a course of 350°psc at a speed of 10.0 knots. At 1830, your position is LAT 41°11.7'N, LONG 71°45.8'W. What are the set and drift of the current?	029°T, 0.7 knot	<b>029°T, 1.4 knots</b>	209°T, 0.7 knot	209°T, 1.4 knots
958	From your 1830 fix, you come left to a course of 290°T. Which of the following statements concerning Watch Hill Light is FALSE?	The nominal range of its white light is 15 miles.	It displays both red and white lights.	Its horn blasts every 30 seconds in fog.	<b>Its geographic range is 18.5 miles at a 35 foot (10.7 meter) height of eye.</b>
959	At 1850, you obtain the following bearings and distances:  Montauk Point 189°pgc 8.7 miles Watch Hill Light 340°pgc 5.7 miles  What true course did you make good between 1830 and 1850?	289°T	<b>294°T</b>	299°T	307°T
960	If your height of eye is 35 feet (10.7 meters), what is the approximate geographic range of Block Island North Light?	7.4 nm	13.0 nm	14.3 nm	<b>15.8 nm</b>
961	From your 1850 fix, you come left to a course of 280°T, while maintaining a speed of 10 knots. What can you determine from your 1905 DR position?	<b>you are outside the 120 foot curve</b>	your fathometer reads about 100 feet	you are operating in inland waters	you are 5.0 miles south of Cerberus Shoal
962	At 1915 your GPS position is Lat 41° 13.2' N Long 071° 53.6' W. What were your course and speed made good from 1850 to 1915?	281°T, 10.0 KTS	279°T, 8.4 KTS	277°T, 10.0 KTS	<b>277°T, 8.0 KTS</b>
963	If you were to head into Fishers Island Sound, which of the following charts would you switch to for better detail of Mystic and Mystic Harbor?	13209	13212	13213	<b>13214</b>
964	From your 1915 position, you come left and set a course for Gardiners Point. At 1930, your position is LAT 41°12.7'N, LONG 71°56.8'W. What type of bottom is charted at this position?	Blue mud, gritty shells	Buried mussels, gritty shells	<b>Blue mud, gray sand</b>	Bumpy muck with grainy surface
965	From your 1930 position, you plot a course to pass 0.5 mile due south of Race Rock Light. If your vessel's speed is 10.0 knots, the current's set and drift are 040°T at 1.8 knots, and a north wind produces a 3° leeway, what true course should you steer to make good your desired course?	275°T	<b>280°T</b>	290°T	294°T

966	As an option to heading into Long Island Sound, you consider anchoring in the vicinity of the Gardiners Point Ruins approximately one mile off the north end of Gardiners Island. What is the minimum recommended distance from the ruins for fishing, trawling, or anchoring?	<b>300 yards (274.4 meters)</b>	1.0 mile	0.5 mile	No distance is prescribed since any such activities in the area are prohibited.																												
967	NOAA VHF-FM weather broadcasts from New London, CT are on _____.	162.25 MHz	162.30 MHz	162.40 MHz	<b>162.55 MHz</b>																												
968	<p>The following questions are based on chart 13205TR, Block Island Sound, and the supporting publications. Your vessel has a draft of 11 feet (3.4 meters). Your height of eye is 32 feet (9.7 meters). The gyro error is 2°W. Use 15°W variation where required.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1°W</td> </tr> <tr> <td>060°</td> <td>2°W</td> </tr> <tr> <td>090°</td> <td>4°W</td> </tr> <tr> <td>120°</td> <td>2°W</td> </tr> <tr> <td>150°</td> <td>1°W</td> </tr> <tr> <td>180°</td> <td>1°E</td> </tr> <tr> <td>210°</td> <td>2°E</td> </tr> <tr> <td>240°</td> <td>3°E</td> </tr> <tr> <td>270°</td> <td>3°E</td> </tr> <tr> <td>300°</td> <td>2°E</td> </tr> <tr> <td>330°</td> <td>1°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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970	At 0227, you are on course 087°T at 10 knots. What course per standard magnetic compass should you steer to make good your true course?	109°psc	<b>105°psc</b>	102°psc	099°psc																												
971	You estimate that you are making 9.3 knots over the ground. At what time will you enter waters governed by the COLREGS?	0258	0255	<b>0251</b>	0247																												

972	At 0337, fog closes in and you anchor under the following radar ranges and bearing:  South tip of Watch Hill Point 3.0 miles East point of Fishers Island 1.4 miles Latimer Reef Light 331°T  What is the approximate depth of water at your anchorage?	135 feet (40.9 meters)	120 feet (36.4 meters)	<b>100 feet (30.3 meters)</b>	83 feet (25.2 meters)
973	By 1015, visibility has increased to 5.0 miles and you can see Fishers Island. Fishers Island has _____.	<b>sparsely wooded hills and is fringed with shoals to the south</b>	sheer cliffs rising from the sea to a high, flat plateau	barren, rocky hills with prominent sandy beaches	low and sandy beaches with salt ponds and marsh grass
974	You get underway at 1030. The wind is out of the SSE and you estimate 3° leeway. What course should you steer per gyrocompass to make good a desired course of 075°T?	<b>080°pgc</b>	078°pgc	076°pgc	074°pgc
975	Shortly after getting underway, you sight Stonington Outer Breakwater Light in line with Stonington Inner Breakwater Light bearing 000° per gyrocompass. Which statement is TRUE?	The deviation is 2°W	The variation is 2°E	The compass error is 16°W	<b>The gyro error is 2.5°W</b>
976	At 1104, Watch Hill Point Light is in line with Stonington Outer Breakwater Light, the range to the south tip of Watch Hill Point is 2.6 miles and the range to the beach is 1.9 miles. You are steering to make good 075°T, speed 10.0 knots. At 1110, you change course to head for a position of LAT 41°05.0'N, LONG 71°50.0'W. What is the true course?	193°	<b>190°</b>	187°	185°
977	At 1110, you increase speed to 12 knots. What is your ETA at the new position?	1220	<b>1215</b>	1208	1157
978	Upon arrival at your new position you would expect Montauk Point Light to be approximately _____ mile(s) from your position.	4.5	2.4	<b>1.3</b>	0.9
979	At 1345, you depart from a position 1 mile due east of Montauk Point Light and set course for Block Island Southeast Light at 9 knots. At 1430, your position is:  Latitude 41° 06.3' North Longitude 071° 41.9' West  What was the current encountered since 1345?	Set 015°, drift 0.5 knot	Set 195°, drift 0.7 knot	Set 015°, drift 0.7 knot	<b>Set 195°, drift 0.5 knot</b>

980	You are encountering heavy weather. What action should you take based on your 1430 fix?	Continue on the same course but increase speed.	Continue on the same course at the same speed.	Slow to 8.3 knots to compensate for the current.	<b>Alter course to the right, to pass well clear of Southwest Ledge</b>																												
981	At 2100, you set course of 000°T, speed 10 knots from LAT 41°07.0'N, LONG 71°30.0'W. Visibility is 5.5 n.m. What is the earliest time you can expect to sight Point Judith Light? (Use charted range of 20 miles as nominal range.)	The light is visible at 2100.	2106	<b>2111</b>	2123																												
982	You estimate the current to be 160°T at 1.2 knots. What should your course and speed be in order to make good 000°T at 10 knots?	358°T at 09.8 knots	<b>358°T at 11.1 knots</b>	002°T at 11.2 knots	002°T at 09.9 knots																												
983	If you want to put into Point Judith Harbor of Refuge, what chart should you use?	<b>13219</b>	13217	13209	13205																												
984	<p>The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel has a draft of 10 feet (3 meters), and your height of eye is 20 feet (6.1 meters). Use 10°W variation where required. The gyro error is 3°E.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> <tr> <th>MAG</th> <th></th> </tr> </thead> <tbody> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1°W</td></tr> <tr><td>060°</td><td>2°W</td></tr> <tr><td>090°</td><td>4°W</td></tr> <tr><td>120°</td><td>2°W</td></tr> <tr><td>150°</td><td>1°W</td></tr> <tr><td>180°</td><td>1°E</td></tr> <tr><td>210°</td><td>2°E</td></tr> <tr><td>240°</td><td>3°E</td></tr> <tr><td>270°</td><td>3°E</td></tr> <tr><td>300°</td><td>2°E</td></tr> <tr><td>330°</td><td>1°E</td></tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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985	You are on course 192°pgc at 12 knots. At 1900 you fix your position using the following information:  Sand Shoal Inlet South Light bearing 244°true @ 11 nm  What is your latitude and longitude at 1900?	LAT 37°21.5'N, LONG 75°34.8'W	LAT 37°22.0'N, LONG 75°34.9'W	LAT 37°22.2'N, LONG 75°35.0'W	<b>LAT 37°22.6'N, LONG 75°35.7'W</b>																												
986	What course should you steer using the standard magnetic compass (psc) to make good the course of 192°pgc?	188°psc	<b>203°psc</b>	205°psc	208°psc																												

987	At 1920, the buoy off your starboard bow is _____.	<b>Sand Shoal Inlet Lighted Buoy "A"</b>	Hog Island Lighted Bell Buoy	South Light Buoy	an interrupted quick flashing buoy
988	At 1930, your position is LAT 37°16.7'N, LONG 75°37.7'W. The depth of water is approximately _____.	40 feet (12.2 meters)	<b>50 feet (15.2 meters)</b>	60 feet (18.3 meters)	70 feet (23.2 meters)
989	At 1950, your position is LAT 37°12.3'N, LONG 75°38.6'W. The set and drift from 1930 to 1950 were _____.	<b>150°T at 1.6 knot</b>	150°T at 0.6 knots	330°T at 0.6 knot	330°T at 1.6 knots
990	Assume set and drift have no effect on your vessel. If you change course to 187°pgc from your 1950 position, how close will you pass Cape Charles Lighted Bell Buoy "14"?	0.1 mile	0.5 mile	0.8 mile	<b>1.1 miles</b>
991	At 2020, you obtain a fix using the following information:  Cape Charles Lighted Bell Buoy "14" bears 333° pgc Cape Charles Light bears 271.5° pgc  Your longitude is _____.	75°38.9'W	75°39.1'W	<b>75°40.5'W</b>	75°41.4'W
992	At 2020, what is the course to steer to enter the inbound lane of North Chesapeake Entrance traffic separation scheme if a northwesterly wind causes 3° of leeway?	227°pgc	<b>221°pgc</b>	218°pgc	215°pgc
993	If you make good 12 knots, what is the ETA at North Chesapeake Channel Entrance Buoy "NCA" (LL #375)?	2121	2116	<b>2111</b>	2101
994	At 2100, Cape Charles Light bears 321°pgc, and Cape Henry Light bears 247°pgc. Your latitude is _____.	37°00.6'N	37°00.0'N	36°59.7'N	<b>36°59.4'N</b>
995	If the visibility is 3 miles, at what range will you lose sight of Chesapeake Light?	The light has never been visible.	4.6 miles	6.4 miles	<b>8.3 miles</b>
996	At 2100, you alter course to 250°T and reduce speed to 7 knots. You enter the traffic separation scheme on the inbound side. At 2200, your fix shows you crossing a broken purple line on the chart, and you observe North Chesapeake Entrance Lighted Gong Buoy "NCD" to port. This area is _____.	an area with local magnetic disturbances	a pilotage area	<b>a precautionary area centered on buoy "CBJ"</b>	in inland waters
997	What course per standard magnetic compass (psc) is the same as 247°pgc?	<b>257°psc</b>	260°psc	262°psc	265°psc
998	At 2215, Cape Henry Light bears 242°pgc, Cape Charles Light bears 010.5°pgc, and Chesapeake Channel Tunnel North Light bears 319°pgc. You are heading 271°pgc. What is the relative bearing of Thimble Shoal Light?	<b>014°</b>	017°	280°	332°

999	While navigating inbound in the Thimble Shoal Channel system you must _____.	navigate in the main channel when between Trestles A & B	<b>use the north auxiliary channel</b>	remain 1500 yards (1360 meters) from large naval vessels	maintain a speed of six knots																										
1000	<p>The following questions should be answered using Chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. The draft of your vessel is 8.5 feet (2.6 meters) Use a variation of 14°W for the entire plot.</p> <p style="text-align: right;">DEVIATION</p> <p>TABLE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">HDG MAG</th> <th style="text-align: left;">DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1.0° W</td></tr> <tr><td>060°</td><td>2.0° W</td></tr> <tr><td>090°</td><td>4.0° W</td></tr> <tr><td>120°</td><td>2.0° W</td></tr> <tr><td>150°</td><td>1.0° W</td></tr> <tr><td>180°</td><td>1.0° E</td></tr> <tr><td>210°</td><td>2.0° E</td></tr> <tr><td>240°</td><td>3.0° E</td></tr> <tr><td>270°</td><td>3.0° E</td></tr> <tr><td>300°</td><td>2.0° E</td></tr> <tr><td>330°</td><td>1.0° E</td></tr> </tbody> </table>					HDG MAG	DEV	000°	0°	030°	1.0° W	060°	2.0° W	090°	4.0° W	120°	2.0° W	150°	1.0° W	180°	1.0° E	210°	2.0° E	240°	3.0° E	270°	3.0° E	300°	2.0° E	330°	1.0° E
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1001	What type of bottom is found at Long Sand Shoal?	Rocky	Muddy	Sandy	<b>Hard</b>																										
1002	You are southeast of Saybrook Breakwater Light passing Saybrook Bar Lighted Bell Buoy "8". This buoy marks _____.	<b>shoal water</b>	a tide rips area	the junction with the Connecticut River	a sunken wreck																										
1003	At 0005, on 26 January, your position is LAT 41°11.8'N, LONG 72°20.5'W. From this position, you plot a course to steer to a point one half mile north of Mattituck Breakwater Light "MI" with an engine speed of 9.0 knots. If there are no set and drift, what course should you steer?	207°psc	213°psc	220°psc	<b>235°psc</b>																										
1004	<p>At 0045, you obtain the following bearings:</p> <p>Rocky Point lookout tower 072°T Horton Point lighthouse 213°T</p> <p>What were the set and drift between 0005 and 0045?</p>	272°true, 0.9 knot	272°true, 1.4 knots	092°true, 0.9 knot	<b>092°True, 1.4 knots</b>																										



1005	You alter course from your 0045 position to head for a point 0.5 mile north of Mattituck Breakwater Light "MI". If the visibility is 10 miles and you make good 9 knots, at approximately what time will you lose sight of Saybrook Breakwater Light?	You have already lost sight at 0045	0055	0120	The light is visible all the way to Mattituck Inlet
1006	At 0100, you obtain the following bearings:  Rocky Point Lookout Tower 062°T Horton Point Lighthouse 189°T  What was the speed made good between 0045 and 0100?	7.4 knots	8.0 knots	8.7 knots	9.2 knots
1007	From your 0100 position, you change course to 258° per standard magnetic compass. Your engine speed is 10.0 knots. A short time later, your fathometer reads 51 feet (15.5 meters) under the keel. What is the water depth?	38.5 feet (11.7 meters)	43.5 feet (13.2 meters)	51.0 feet (15.5 meters)	59.5 feet (18.0 meters)
1008	According to the DR track line from your 0100 position, how far off Roanoke Point Shoal Buoy "5" should you be when the buoy is abeam?	0.2 mile	0.6 mile	1.3 miles	1.8 miles
1009	At 0130, you obtain the following bearings:  Horton Point Lighthouse 078°T Mattituck Breakwater Light tower 196°T  What were the course and speed made good between 0100 and 0130?	246°T at 9.8 knots	253°T at 9.4 knots	259°T at 9.8 knots	267°T at 9.4 knots
1010	From your 0130 position, you change course to adjust for set and drift, and you later obtain the following bearings:  Mattituck Inlet Light bearing 104.5°true Falkner Island Light bearing 001°true  What is the latitude and longitude of your fix?	LAT 41°00.8'N, LONG 72°40.8'W	LAT 41°01.2'N, LONG 72°40.4'W	LAT 41°01.6'N, LONG 72°40.0'W	LAT 41°02.0'N, LONG 72°39.5'W
1011	At 0209, your position is LAT 41°01.8'N, LONG 72°40.8'W. What course should you steer per standard magnetic compass to make good 278° magnetic? (assume no set and drift)	262.0°psc	265.0°psc	275.5°psc	280.5°psc
1012	The south coast of Long Island Sound between Mattituck Inlet and Port Jefferson is _____.	composed of high rocky bluffs	a high, flat plateau with sheer cliffs	fringed by rocky shoals	low and marshy with isolated beaches

1013	At 0300, your position is LAT 41°01.7'N, LONG 72°55.1'W. From this position you steer a course of 289° per standard magnetic compass at an engine speed of 10.0 knots. At what time can you first expect to see Stratford Shoal Middle Ground Light if the luminous range is 8.0 miles?	0303	0309	0312	0318																												
1014	You must arrive at your final destination by 0800. The distance from your 0300 position to the final destination is 40.5 miles. What minimum speed must be made good to arrive on time?	8.1 knots	8.5 knots	9.3 knots	9.6 knots																												
1015	You are northwest of Port Jefferson Harbor steering 242° per standard magnetic compass. As you continue westward, you see that the Port Jefferson Range Front Light and Rear Light come into line. If the deviation table is correct, the bearing of the range should be _____.	140°psc	146°psc	157°psc	160°psc																												
1016	<p>The following questions are to be answered by using chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your draft is 14 feet (4.2 meters). Use 10°W for variation where required. The gyro error is 3°E.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>2.0°E</td> </tr> <tr> <td>030°</td> <td>1.0°E</td> </tr> <tr> <td>060°</td> <td>0.0°</td> </tr> <tr> <td>090°</td> <td>0.5°W</td> </tr> <tr> <td>120°</td> <td>1.0°W</td> </tr> <tr> <td>150°</td> <td>2.0°W</td> </tr> <tr> <td>180°</td> <td>2.0°W</td> </tr> <tr> <td>210°</td> <td>1.0°W</td> </tr> <tr> <td>240°</td> <td>0.5°W</td> </tr> <tr> <td>270°</td> <td>0.5°E</td> </tr> <tr> <td>300°</td> <td>1.5°E</td> </tr> <tr> <td>330°</td> <td>2.5°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	2.0°E	030°	1.0°E	060°	0.0°	090°	0.5°W	120°	1.0°W	150°	2.0°W	180°	2.0°W	210°	1.0°W	240°	0.5°W	270°	0.5°E	300°	1.5°E	330°	2.5°E
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1017	Your 1600 position is LAT 37°22.5'N, LONG 75°32.3'W. The depth of water under the keel is about _____.	59 feet (17.3 meters)	52 feet (15.8 meters)	45 feet (13.6 meters)	38 feet (11.5 meters)																												
1018	If there is no current, what is the course per gyro compass from your 1600 position to point A located 0.5 mile due east of Hog Island Lighted Bell Buoy "12"?	199°pgc	196°pgc	193°pgc	190°pgc																												

1019	At 1630, you reach point A and come right to 204°T. Your engine speed is 12 knots. Your 1715, position is LAT 37°09.8'N, LONG 75°37.4'W. The current was _____.	<b>067°T at 1.4 knots</b>	246°T at 1.0 knots	067°T at 1.0 knots	246°T at 1.4 knots
1020	From your 1715 fix, you steer 214°T at 12 knots. At 1800, you take the following bearings:  Chesapeake Light bearing 175°pgc Cape Henry Light bearing 239°pgc Cape Charles Light bearing 293°pgc  Your 1800 position is _____.	LAT 37°02.7'N, LONG 75°42.7'W	<b>LAT 37°02.9'N, LONG 75°43.1'W</b>	LAT 37°03.0'N, LONG 75°43.3'W	LAT 37°03.1'N, LONG 75°42.8'W
1021	At 1815, your position is LAT 37°01.0'N, LONG 75°42.7'W. If there is no current, what is the course per standard magnetic compass to arrive at a point 0.3 mile due north of North Chesapeake Entrance Lighted Whistle Buoy "NCA" (LL#375)?	<b>257.0°</b>	255.5°	251.0°	249.0°
1022	From your 1815 position, you want to make good a course of 263°T. Your engines are turning RPM's for 12 knots. The current is 050°T at 1.9 knots. Adjusting your course for set and drift, at what time should you expect to enter the red sector of Cape Henry Light?	<b>1904</b>	1859	1854	1849
1023	At 1920, Cape Henry Light bears 225°pgc, and Chesapeake Channel Tunnel North Light bears 288°pgc. If your heading is 268°T, what is the relative bearing of Chesapeake Light?	206°	<b>213°</b>	215°	220°
1024	Which statement concerning your 1920 position is TRUE?	You are governed by the Inland Rules of the Road.	<b>You are entering a restricted area.</b>	You are within the Chesapeake Bay Entrance traffic separation scheme.	You can expect differences of as much as 6° from the normal magnetic variation of the area.
1025	From your 1920 position, you change course to enter Chesapeake Channel between buoys 9 and 10. What is the course per standard magnetic compass (psc) ?	274°psc	280°psc	<b>283°psc</b>	286°psc
1026	At 2000, your position is LAT 37°04.1'N, LONG 76°05.6'W. You change course for the Eastern Shore. At 2037, Old Plantation Flats Light bears 033°pgc, and York Spit Light bears 282°pgc. The course made good from your 2000 position is _____.	020°T	014°T	006°T	<b>359°T</b>
1027	At 2037, you change course to make good a course of 016°T. There is no current, but a westerly wind is causing 3° leeway. What course per standard magnetic compass (psc) should you steer to make good the course 016°T?	<b>022°psc</b>	025°psc	028°psc	031°psc

1028	Your height of eye is 25 feet (7.6 meters). If the visibility is 5.5 nautical miles, what is the luminous range of Wolf Trap Light?	17.0 miles	16.0 miles	12.0 miles	<b>7.5 miles</b>																										
1029	If you want a more detailed chart of the area at your 2115 DR position, which chart should you use?	12238	12225	<b>12224</b>	12222																										
1030	At 2123, your position is LAT 37°20.0'N, LONG 76°03.0'W. What is your distance offshore of Savage Neck?	<b>1.7 miles</b>	2.6 miles	3.4 miles	4.6 miles																										
1031	From your 2123 position, you are approximately 42 miles from Crisfield, MD. If you are making good a speed of 13 knots, at what time should you arrive at Crisfield, MD?	0148	0112	<b>0037</b>	2359																										
1032	<p>The following questions are to be answered by using chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your draft is 11 feet (3.3 meters). Use 14°W for variation where required. The gyro error is 3°E.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>2.0°E</td> </tr> <tr> <td>030°</td> <td>1.0°E</td> </tr> <tr> <td>060°</td> <td>0.5°W</td> </tr> <tr> <td>090°</td> <td>0.5°W</td> </tr> <tr> <td>120°</td> <td>1.0°W</td> </tr> <tr> <td>150°</td> <td>2.0°W</td> </tr> <tr> <td>180°</td> <td>2.0°W</td> </tr> <tr> <td>210°</td> <td>1.0°W</td> </tr> <tr> <td>270°</td> <td>0.5°E</td> </tr> <tr> <td>300°</td> <td>1.5°E</td> </tr> <tr> <td>330°</td> <td>2.5°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	2.0°E	030°	1.0°E	060°	0.5°W	090°	0.5°W	120°	1.0°W	150°	2.0°W	180°	2.0°W	210°	1.0°W	270°	0.5°E	300°	1.5°E	330°	2.5°E
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1033	At 0700, Stratford Shoal Middle Ground Light bears 137°pgc. From your radar, you get a bearing of 007°pgc to the south tip of Stratford Point with a range of 4.5 miles. What is your 0700 position?	LAT 41°04.6'N, LONG 73°07.0'W	LAT 41°04.6'N, LONG 73°06.6'W	LAT 41°04.6'N, LONG 73°07.4'W	<b>LAT 41°04.6'N, LONG 73°07.2'W</b>																										
1034	At 0725, you are heading 054°T, and Stratford Point Light is abeam to port at 3.1 miles. The current is 135°T at 1.8 knots. If you make turns for an engine speed of 8 knots, which course must you steer to make good 048°T?	055°T	047°T	042°T	<b>035°T</b>																										
1035	Which structure should you look for while trying to locate Southwest Ledge Light?	<b>White octagonal house on a cylindrical pier</b>	White conical tower with a brown band midway of height	Conical tower, upper half white, lower half brown	Black skeleton tower on a granite dwelling																										

1036	At 0830, you obtained the following Radar Ranges:  New Haven Light @ 2.2 nm Branford Reef Light @ 4.2 nm  What is your vessel's position?	LAT 41°12.4'N, LONG 73°56.0'W	LAT 40°17.4'N, LONG 73°54.0'W	<b>LAT 41°12.4'N, LONG 72°53.8'W</b>	LAT 41°13.4'N, LONG 72°53.8'W
1037	From your 0830 position, you wish to make good 097°T. There is no current, but a southerly wind is producing 3° leeway. What course should you steer per standard magnetic compass in order to make good your true course?	109°psc	112°psc	<b>115°psc</b>	118°psc
1038	At 0845, you are on a course of 097°T, and Townshend Ledge Buoy "10A" is close abeam to port. With a westerly current of 1.2 knots, what speed will you have to turn for from your 0845 position in order to arrive abeam of Six Mile Reef Buoy "8C" at 1030?	12.1 knots	<b>10.9 knots</b>	9.7 knots	8.5 knots
1039	At 0910, your DR position is LAT 41°11.9'N, LONG 72°47.8'W. Your vessel is on course 097°T at 9.5 knots, and the weather is foggy. At 0915, Branford Reef Light is sighted through a break in the fog bearing 318°T. At 0945, Falkner Island Light is sighted bearing 042°T. What is your 0945 running fix position?	LAT 41°11.1'N, LONG 72°41.2'W	LAT 41°11.3'N, LONG 72°41.3'W	<b>LAT 41°11.5'N, LONG 72°40.7'W</b>	LAT 41°11.8'N, LONG 72°40.2'W
1040	What do the dotted lines around Goose Island and Kimberly Reef represent?	<b>Depth contours</b>	Breakers	Limiting danger	Tide rips
1041	At 1100, your position is LAT 41°11.3'N, LONG 72°28.0'W. You are steering a course of 069°T to leave Black Point one mile off your port beam. It has been reported that the Long Sand Shoal Buoys and Hatchett Reef Buoys are off station. Which of the following will serve as a line marking the hazards and keep your vessel in safe water?	A bearing to Little Gull Island Light of not less than 090°	Maintaining a 7nm range off Orient point	<b>Danger bearing to Black Point of not more than 064°T</b>	A distance to Saybrook Breakwater Light of not less than 1.3 miles
1042	Little Gull Island Light is _____.	lighted only during daytime when the sound signal is in operation	<b>lighted throughout 24 hours</b>	maintained only from May 1 to Oct 1	obscured by trees from 253° to 352°
1043	At 1210, you are in position LAT 41°14.3'N, LONG 72°16.5'W. What is the depth of water below your keel?	92 feet (28.0 meters)	<b>97 feet (29.4 meters)</b>	108 feet (32.7 meters)	115 feet (35.0 meters)
1044	From your 1210 position, you are making good a course of 083°T. Your engines are turning RPMs for 10 knots. The set and drift of the current are 310° at 1.7 knots. At what time should you expect to enter the red sector of New London Harbor Light?	<b>1243</b>	1254	1259	1305

1045	Your vessel is entering New London Harbor Channel. If there is no current, what should you steer per gyro compass to stay on the range?	006°	357°	354°	351°																												
1046	On chart 12354, the datum from which heights of objects are taken is _____.	lowest low water	mean low water	mean high water	mean lower low water																												
1047	The red sector of New London Harbor Light covers from _____.	040° - 310°	000° - 031°	208° - 220°	000° - 041°																												
1048	<p>The following questions are based on chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 8.5 feet (2.6 meters). Use 14°W variation where required.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1°W</td> </tr> <tr> <td>060°</td> <td>2°W</td> </tr> <tr> <td>090°</td> <td>4°W</td> </tr> <tr> <td>120°</td> <td>2°W</td> </tr> <tr> <td>150°</td> <td>1°W</td> </tr> <tr> <td>180°</td> <td>1°E</td> </tr> <tr> <td>210°</td> <td>2°E</td> </tr> <tr> <td>240°</td> <td>3°E</td> </tr> <tr> <td>270°</td> <td>3°E</td> </tr> <tr> <td>300°</td> <td>2°E</td> </tr> <tr> <td>330°</td> <td>1°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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330°	1°E																																
1049	What type of bottom is found at Long Sand Shoal?	Rocky	Muddy	Hard	Sandy																												
1050	You are southeast of Saybrook Breakwater Light passing Saybrook Bar Lighted Bell Buoy "8". This buoy marks _____.	a sunken wreck	a bifurcation	the junction with the Connecticut River	shoal water																												
1051	At 0005, on 26 January, your position is LAT 41°11.8'N, LONG 72°20.5'W. From this position, you plot a course to steer to Mattituck Breakwater Light "M" with an engine speed of 9.0 knots. If there are no set and drift, what course should you steer?	225.0°psc	230.5°psc	233.0°psc	236.0°psc																												
1052	At 0045, you obtain the following information:  Radar range to Inlet Point is 1.4 miles; Radar range to Rocky Point is 2.8 miles. Radar range to Horton Point is 2.8 miles.  What were the set and drift between 0005 and 0045?	275°true, 0.9 knot	275°true, 1.4 knots	095°true, 1.4 knot	095°True, 0.9 knots																												

1053	You alter course from your 0045 position to head for Mattituck Breakwater Light "MI". If the visibility is 10 miles and you make good 9 knots, at what time will you lose sight of Saybrook Breakwater Light?	0100	0123	0131	The light is visible all the way to Mattituck Inlet
1054	At 0100, you obtain the following radar ranges:  Inlet Point - 2.7 miles, Rocky Point - 4.5 miles, Horton Point - 1.0 mile.  What was the speed made good between 0045 and 0100?	6.7 knots	7.2 knots	8.0 knots	8.7 knots
1055	From your 0100 position, you change course to 258° per standard magnetic compass. Your engine speed is 10.0 knots. A short time later, your fathometer reads 51 feet (15.5 meters) under the keel. What is the water depth?	42.5 feet (12.9 meters)	51.0 feet (15.5 meters)	59.5 feet (18.0 meters)	60.4 feet (18.4 meters)
1056	According to the DR track line from your 0100 position, how far off Roanoke Point Shoal Buoy "5" should you be when the buoy is abeam?	1.8 miles	1.3 miles	0.8 mile	0.2 mile
1057	At 0130, you obtain the following radar ranges:  Horton Point Light - 4.3 miles; Mattituck Breakwater Light - 3.45 miles; Duck Pond Point - 2.0 miles.  What were the course and speed made good between 0100 and 0130?	236°T at 9.4 knots	246°T at 9.8 knots	259°T at 9.8 knots	267°T at 9.4 knots
1058	From your 0130 position, you change course to adjust for set and drift, and you later obtain the following bearings:  Mattituck Inlet Light bearing 104.5°true Falkner Island Light bearing 001°true  What is the latitude and longitude of the fix?	LAT 41°00.8'N, LONG 72°40.8'W	LAT 41°01.2'N, LONG 72°40.4'W	LAT 41°02.0'N, LONG 72°39.5'W	LAT 41°02.6'N, LONG 72°39.0'W
1059	At 0209, your position is LAT 41°01.8'N, LONG 72°40.8'W. What course should you steer per standard magnetic compass to make good 278° magnetic? (assume no set and drift)	262.0°psc	265.0°psc	270.5°psc	275.5°psc
1060	The south coast of Long Island Sound between Mattituck Inlet and Port Jefferson is _____.	composed of high rocky bluffs	a high, flat plateau with sheer cliffs	low and marshy with isolated beaches	fringed by rocky shoals

1061	At 0300, your position is LAT 41°01.7'N, LONG 72°55.1'W. From this position you steer a course of 289° per standard magnetic compass at an engine speed of 10.0 knots. At what time can you first expect to see Stratford Shoal Middle Ground Light if the luminous range is 8.0 miles?	0318	0312	0309	<b>0303</b>																												
1062	You must arrive at your final destination by 0800. The distance from your 0300 position to the final destination is 40.5 miles. What minimum speed must be made good to arrive on time?	9.6 knots	9.3 knots	8.5 knots	<b>8.1 knots</b>																												
1063	You are northwest of Port Jefferson Harbor steering 242° per standard magnetic compass. As you continue westward, you see that the Port Jefferson Range Front Light and Rear Light come into line. If the deviation table is correct, the bearing of the range should be _____.	<b>157°psc</b>	160°psc	163°psc	166°psc																												
1064	<p>The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your height of eye is 25 feet (7.6 meters). Use 10°W variation where required. The gyro error is 3°E.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> <tr> <th>MAG</th> <th></th> </tr> </thead> <tbody> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1°W</td></tr> <tr><td>060°</td><td>2°W</td></tr> <tr><td>090°</td><td>4°W</td></tr> <tr><td>120°</td><td>2°W</td></tr> <tr><td>150°</td><td>1°W</td></tr> <tr><td>180°</td><td>1°E</td></tr> <tr><td>210°</td><td>2°E</td></tr> <tr><td>240°</td><td>3°E</td></tr> <tr><td>270°</td><td>3°E</td></tr> <tr><td>300°</td><td>2°E</td></tr> <tr><td>330°</td><td>1°E</td></tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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1065	The National Weather Service provides 24 hour weather broadcasts to vessels transiting the Chesapeake Bay Bridge Tunnel area on which frequency?	<b>162.55 MHz</b>	162.85 MHz	181.15 MHz	202.35 MHz																												
1066	At 1752, your position is LAT 37°04.3'N, LONG 76°06.4'W. On a flood current you should expect to be set to the _____.	south southeast	south southwest	east southeast	<b>north northwest</b>																												



1067	Your 1752 position places you _____.	less than 0.5 mile eastward of York Spit Channel	<b>less than 0.5 mile westward of York Spit Channel</b>	greater than 0.5 mile westward of York Spit Channel	greater than 0.5 mile eastward of York Spit Channel
1068	What is the average velocity of the maximum flood current at the Tail of the Horseshoe?	1.6 knot	1.3 knot	<b>0.9 knots</b>	0.6 knots
1069	From your 1752 position, you steer 307°pgc at 9 knots. At 1805, you obtain the visual bearings. What are the latitude and longitude of your 1805 position? Old Pt. Comfort Light 232°pgc. Chesapeake Bay Tunnel North Light 130°pgc.	<b>LAT 37°05.9'N, LONG 76°08.0'W</b>	LAT 37°06.0'N, LONG 76°08.4'W	LAT 37°05.9'N, LONG 76°07.7'W	LAT 37°06.1'N, LONG 76°07.5'W
1070	At 1810, you sight a buoy on your starboard side labeled "19". This buoy marks _____.	<b>the side of York Spit Channel</b>	the visibility limit of the red sector of Cape Henry Light	the end of York Spit Channel	the junction of the York Spit and York River Entrance Channels
1071	Based on a DR, at approximately 1817 you would expect to _____.	enter a traffic separation zone	cross a submerged pipeline	<b>depart a regulated area</b>	depart a restricted area
1072	At 1845, you plot the following bearing lines:  Old Plantation Flats Light bearing 071°true New Point Comfort Spit Light "2" bearing 335°true  What is your latitude?	37°10.7'N	37°10.9'N	<b>37°11.2'N</b>	37°11.6'N
1073	Your 1900 position is LAT 37°12.9'N, LONG 76°13.5'W. You change course to 317°pgc and slow to 8.0 knots. What is the course per standard magnetic compass?	<b>329°psc</b>	319°psc	311°psc	309°psc
1074	If the visibility is 11 miles, what is the luminous range of New Point Comfort Spit Light "4"?	6.5 miles	<b>5.0 miles</b>	3.3 miles	2.0 miles
1075	According to your track line, how far off New Point Comfort Spit Light "4" will you be when abeam of this light?	0.5 mile	<b>0.9 miles</b>	1.5 miles	1.8 miles
1076	At 1930, you take a fix using the following radar ranges: York Spit Light - 3.6 miles; New Point Comfort Spit Light "2" - 2.0 miles; York Spit Swash Channel Light "3" - 2.5 miles.  Your longitude is _____.	76°16.2'W	76°16.5'W	<b>76°16.8'W</b>	76°17.2'W
1077	What was the speed made good from 1845 to 1930?	6.2 knots	6.8 knots	7.5 knots	<b>8.3 knots</b>
1078	What is the height above water of Davis Creek Channel Light "1"?	<b>15 feet (4.6 meters)</b>	17 feet (5.2 meters)	19 feet (5.8 meters)	24 feet (7.3 meters)
1079	If you have 17.3 miles to reach your destination from your 2000 position and want to be there at 2230, what speed should you make good?	<b>6.9 knots</b>	6.5 knots	6.1 knots	5.7 knots

<b>1080</b>	The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel has a draft of 8.0 feet (2.4 meters). Use 10°W variation where required. The gyro error is 2°W.																																																																										
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<b>1081</b>	At 1730, your position is LAT 37°13.9'N, LONG 76°26.4'W. You are steering course 088° per standard magnetic compass (psc) at an engine speed of 8.0 knots. What is your distance off Tue Marshes Light at 1730?	3.2 miles	3.0 miles	2.8 miles	<b>2.6 miles</b>																																																																						
<b>1082</b>	What is the maximum allowable speed of vessels underway up river from Tue Marshes Light?	<b>12 knots</b>	10 knots	8 knots	6 knots																																																																						
<b>1083</b>	At 1750, your position is LAT 37°14.5'N, LONG 76°22.9'W. What was the course made good between 1730 and 1750?	081°T	<b>078°T</b>	075°T	072°T																																																																						
<b>1084</b>	At 1800, Tue Marshes Light bears 264.5°pgc, York Spit Swash Channel Light "3" bears 007°pgc. Your position is _____.	LAT 37°15.5'N, LONG 76°19.8'W	LAT 37°15.2'N, LONG 76°20.3'W	<b>LAT 37°14.5'N, LONG 76°20.1'W</b>	LAT 37°15.0'N, LONG 76°20.4'W																																																																						
<b>1085</b>	What course should you steer per standard magnetic compass in order to navigate down the center of York River Entrance Channel (ignore set and drift)?	149°psc	145°psc	<b>141°psc</b>	139°psc																																																																						
<b>1086</b>	You have just passed York River Entrance Channel Lighted Buoys "13" and "14". The chart shows a light approximately 1.0 mile off your port beam with a light characteristic "Fl 6 sec". What is the name of this light?	<b>York Spit Light</b>	New Point Comfort Shoal Light	Mobjack Bay Entrance Light	York River Entrance Channel Light "1"																																																																						

1087	At 1930, your vessel is between York River Entrance Channel Lighted Buoys "1YR" and "2". From this position, you change course to 142°pgc at an engine speed of 8.0 knots. At 2001, you obtain the following information:  Chesapeake Channel Tunnel North Light -131°pgc Thimble Shoal Light - 248°pgc  What were the set and drift between 1930 and 2001?	<b>127° at 0.5 knot</b>	127° at 1.1 knot	307° at 1.1 knot	307° at 0.5 knot
1088	At 2015, your vessel is at the Chesapeake Bay Bridge and Tunnel midway between buoys "13" and "14". If the height of tide is -1 foot (-0.3 meters), what is the approximate depth of water?	35 feet (10.6 meters)	43 feet (13.1 meters)	46 feet (13.9 meters)	<b>53 feet (15.5 meters)</b>
1089	If you steer 143°pgc from your 2015 position at an engine speed of 8.0 knots, at what time would you reach a point midway between buoys "11" and "12" (ignore set and drift)?	<b>2029</b>	2032	2035	2037
1090	At 2015, you alter course to 154°pgc. What is the course per standard magnetic compass (psc)?	142°psc	152°psc	157°psc	<b>162°psc</b>
1091	Which of the following concerning Thimble Shoal Channel is TRUE?	Only deep-draft passenger ships and large naval vessels may use the main channel.	<b>A tow drawing 20 feet is excluded from the main channel.</b>	The channel is 14.5 miles in length.	Thimble Shoal Channel is in international waters.
1092	At 2118, you obtain the following bearings:  Cape Henry Light - 148°pgc Cape Charles Light - 033°pgc Thimble Shoal Light - 291°pgc  From this position, you proceed to Norfolk, VA, a distance of approximately 26.0 miles. To arrive at Norfolk by 0200 the next day, what is the speed to make good from your 2118 position to arrive at this time?	6.5 knots	6.0 knots	<b>5.5 knots</b>	5.0 knots
1093	What is your 2118 position?	LAT 36°56.6'N, LONG 76°01.0'W	LAT 36°57.0'N, LONG 76°01.5'W	<b>LAT 36°57.4'N, LONG 76°01.9'W</b>	LAT 36°58.0'N, LONG 76°02.4'W
1094	From your 2118 position, you are steering 288°T at an engine speed of 7.0 knots. If visibility is suddenly reduced to 2 miles, at what time can you expect Old Point Comfort Light to become visible again?	The light is visible at 2118.	2155	2220	<b>2232</b>
1095	If the Old Point Comfort main light was inoperative what emergency light would be shown?	<b>Light of reduced intensity</b>	Alternating red and white	Flashing yellow	Strobe light

<b>1096</b>	The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel has a draft of 9.0 feet (2.7 meters). Your height of eye is 15 feet (4.6 meters). Use 10°W variation where required. The gyro error is 2°W.																																																																					
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<b>1097</b>	At 1400, your position is LAT 37°14.7'N, LONG 76°22.3'W. From this position, you head for the York River Entrance Channel Buoy "17". What should you steer per standard magnetic compass for this heading?	<b>125°psc</b>	122°psc	119°psc	108°psc																																																																	
<b>1098</b>	At 1430, your position is LAT 37°12.8'N, LONG 76°17.7'W. At this time, you come left and steer 045°T. This course will lead you through a channel bordered by yellow buoys. The dashed magenta lines between the buoys mark _____.	York River Entrance Channel	<b>Fish trap areas</b>	the piloting channel for Mobjack Bay	New Point Comfort shoal area																																																																	
<b>1099</b>	From your 1430 fix, you order turns for 8 knots. You steer 045°T and experience no set and drift. At what time would you expect to have New Point Comfort Spit Light "4" abeam?	1510	1504	<b>1458</b>	1452																																																																	
<b>1100</b>	At 1540, your position is LAT 37°18.4'N, LONG 76°10.5'W. Which course should you steer per gyrocompass to head for the entrance to Cape Charles City?	<b>129°pgc</b>	123°pgc	117°pgc	109°pgc																																																																	

1101	You arrive at Cape Charles City at 1700 and depart at 1800. You are underway in Chesapeake Bay and encounter heavy fog. At 1830, you obtain the following radar information:  Old Plantation Flats Light bearing 041.5° true @ 1.9 nm  What is your 1830 position?	LAT 37°10.3'N, LONG 76°04.5'W	LAT 37°10.3'N, LONG 76°06.5'W	LAT 37°12.3'N, LONG 76°06.5'W	<b>LAT 37°12.3'N, LONG 76°04.4'W</b>
1102	From your 1830 fix, you continue south on a course of 150°T turning RPMs for 6 knots. You encounter a flood current in the direction of 330°T at 2 knots. Adjusting your course for set and drift, which course would you steer to make good a course of 150°T while turning RPMs for 6 knots?	162°T	158°T	<b>150°T</b>	144°T
1103	Determine your 1915 position using the following visual bearings obtained at 1915. Cape Charles Light 107°pgc Cape Henry Light 172°pgc and Radar Bearing and Range to Chesapeake Channel Tunnel South Light 189°pgc at 7.2 miles	LAT 37°03.5'N, LONG 76°05.9'W	LAT 37°03.5'N, LONG 76°09.3'W	<b>LAT 37°09.3'N, LONG 76°03.1'W</b>	LAT 37°09.8'N, LONG 76°04.1'W
1104	From your 1915 fix you come right and steer a course of 200°T. At 2000, your position is LAT 37°05.5'N, LONG 76°07.0'W. Your intention is to pass through Chesapeake Channel. If there are no set and drift, what course would you steer per standard magnetic compass to make good a course of 145°T?	<b>156°</b>	151°	139°	134°
1105	At 2100, you have passed through the Chesapeake Bay Bridge and Tunnel and determine your position to be LAT 37°01.3'N, LONG 76°03.0'W. The current is flooding in a direction of 303°T at 2.5 knots. Adjusting your course for set and drift, which course would you steer while turning RPMs for 6 knots to make good a course of 175°T?	190°T	183°T	164°T	<b>156°T</b>
1106	At 2150, your position is LAT 36°57.2'N, LONG 76°01.3'W. In this position on the chart, you note a light magenta line running in a direction of 030°T. This line indicates the limits of _____.	<b>a pilotage area</b>	a precautionary area	the Cape Henry Light red sector	chart 12222
1107	At 2200, you are in position LAT 36°57.5'N, LONG 76°02.5'W. You intend to travel up the Thimble Shoals auxiliary Channel to Hampton Roads. According to the Coast Pilot, what is the depth of the auxiliary channel on either side of the main channel?	45 feet (13.7 meters)	36 feet (11.0 meters)	<b>32 feet (9.8 meters)</b>	28 feet (8.5 meters)

1108	From your 2200 fix, you steer course 288°T to travel up the Thimble Shoal North Auxiliary Channel. If you are making good 6.0 knots, at what time would you expect to pass buoy "18" at the west end of the channel? (There are no set and drift.)	2355	<b>2344</b>	2335	2324																												
1109	At 2205, you are in Thimble Shoal North Auxiliary Channel abeam of lighted gong buoy "4". At this time the visibility decreases to 5 miles. You continue to turn RPMs for 6 knots and experience no set and drift. What time would you expect Old Point Comfort Light (white sector) to become visible?	2258	2246	<b>2240</b>	2230																												
1110	The mean high water level at Old Point Comfort is _____.	3.3 feet (1.1 meters)	<b>2.6 feet (0.8 meters)</b>	1.2 feet (0.4 meters)	0.0																												
1111	You are entering Norfolk Harbor and have just passed Craney Island. Which chart should you use for your final approach into Norfolk Harbor?	12263	<b>12253</b>	12248	12238																												
1112	<p>The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. The draft of your tow is 27 feet (8.2 meters). Use 10° variation where required. There is no gyro error.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> <tr> <th>MAG</th> <th></th> </tr> </thead> <tbody> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1°W</td></tr> <tr><td>060°</td><td>2°W</td></tr> <tr><td>090°</td><td>4°W</td></tr> <tr><td>120°</td><td>2°W</td></tr> <tr><td>150°</td><td>1°W</td></tr> <tr><td>180°</td><td>1°E</td></tr> <tr><td>210°</td><td>2°E</td></tr> <tr><td>240°</td><td>3°E</td></tr> <tr><td>270°</td><td>3°E</td></tr> <tr><td>300°</td><td>2°E</td></tr> <tr><td>330°</td><td>1°E</td></tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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1113	Your 0200 position is LAT 37°23.5'N, LONG 76°09.2'W. Your speed is 8 knots, and your course is 095°T. Which statement is TRUE?	The depth of the water in your vicinity is about 38 to 40 fathoms (69.1 meters to 72.7 meters).	The closest major aid to navigation is New Point Comfort.	<b>You are less than a mile from a sunken wreck which could interfere with your tow.</b>	You will pass through a disposal area on your present course.																												

1114	At 0315, you obtain the following bearings:  Wolf Trap Light bearing 271° true Old Plantation Flats Light bearing 179° true  What is the true course from this position to the entrance of York Spit Channel?	217°	211°	<b>208°</b>	203°
1115	From your 0315 position, what time can you expect to reach York Spit Channel Buoys "37" and "38"?	0423	0417	0412	<b>0405</b>
1116	The engineer has advised that it will be necessary to secure the gyrocompass and the electronic equipment. From your 0315 position, what is your course per standard magnetic compass to York Spit Channel Buoy "38", if there is no current?	218°psc	<b>216°psc</b>	214°psc	212°psc
1117	Which chart could you use for greater detail of the area at the south end of York Spit Channel?	12254	12226	12224	<b>12222</b>
1118	You leave York Spit Channel at buoy "14" at 0600 with an engine speed of 12 knots. You receive orders to rendezvous with the tug "Quicksilver" and her tow at Hog Island Bell Buoy "12". What is your ETA at the rendezvous point, if you pass through Chesapeake Channel to buoy "CBJ", through the outbound traffic separation lane to buoy "NCA" (LL#375), and then to the rendezvous point?	0935	<b>0910</b>	0850	0830
1119	You arrive at the rendezvous point, secure the tow, and head back southward. At 1200, you take the following bearings:  Sand Shoal Inlet South Light bearing 289° pgc Cape Charles Light bearing 240° pgc  What is your 1200 position?	<b>LAT 37°15.0'N, LONG 75°37.5'W</b>	LAT 37°16.0'N, LONG 75°38.0'W	LAT 37°17.0'N, LONG 75°39.5'W	LAT 37°19.0'N, LONG 75°40.5'W
1120	From your noon position, if there is no set and drift, what is your course per standard magnetic compass to the "NCA" (LL #375) buoy?	221°psc	219°psc	<b>217°psc</b>	215°psc
1121	Your gyro and electronic gear are again operating. At 1710, Chesapeake Light bears 137°pgc at 6.6 miles. The current is setting 160°T at 2 knots. At your speed of 6 knots, what is your true course to steer to remain in the inbound traffic lane?	250°	261°	265°	<b>269°</b>

1122	At 1810, you obtain the following bearings:  Cape Charles Light bearing 005° pgc Cape Henry Light bearing 251.5° pgc  What is your position?	LAT 36°56.0'N, LONG 75°58.5'W	LAT 36°55.4'N, LONG 75°56.0'W	<b>LAT 36°56.8'N, LONG 75°55.6'W</b>	LAT 36°57.4'N, LONG 75°54.6'W																										
1123	What speed have you made good from 1710 to 1810?	<b>6.3 knots</b>	5.5 knots	4.9 knots	4.2 knots																										
1124	If you make good a speed of 6.0 knots from your 1810 position, what is your ETA at Chesapeake Channel Lighted Bell Buoy "2C"?	1900	1855	1845	<b>1833</b>																										
1125	You passed Cape Henry Light at 0730 outbound at maximum flood. What approximate current can you expect on entering Chesapeake Channel?	Slack before ebb	Slack before flood	<b>Flood current</b>	Ebb current																										
1126	The coastline by Cape Henry is best described as _____.	rocky with pine scrubs	low wetlands	<b>sandy hills about eighty feet high</b>	low and thinly wooded with many beach houses																										
1127	Inbound, the color of Cape Henry Light will _____.	alternate regardless of your position	change after you reach Chesapeake Channel Lighted Bell Buoy "2C"	remain the same	<b>change before you reach Chesapeake Channel Lighted Bell Buoy "2C"</b>																										
1128	<p>The following questions are based on chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 12 feet (3.6 meters). Your height of eye is 16 feet (4.8 meters). The gyro error is 2°E. Use 14°W variation where required.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG MAG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1°W</td></tr> <tr><td>060°</td><td>2°W</td></tr> <tr><td>090°</td><td>4°W</td></tr> <tr><td>120°</td><td>2°W</td></tr> <tr><td>150°</td><td>1°W</td></tr> <tr><td>180°</td><td>1°E</td></tr> <tr><td>210°</td><td>2°E</td></tr> <tr><td>240°</td><td>3°E</td></tr> <tr><td>270°</td><td>3°E</td></tr> <tr><td>300°</td><td>2°E</td></tr> <tr><td>330°</td><td>1°E</td></tr> </tbody> </table>					HDG MAG	DEV	000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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1129	You are on course 082°T, and the engines are turning for 8 knots. At 0352, you take the following bearings: Stratford Point Light 016°pgc Stratford Shoal (Middle Ground) Light 137°pgc  What is your 0352 position?	<b>LAT 41°05.2'N, LONG 73°07.8'W</b>	LAT 41°05.4'N, LONG 73°07.3'W	LAT 41°05.3'N, LONG 73°07.5'W	LAT 41°05.4'N, LONG 73°07.7'W
1130	If the visibility is 11 miles, what is the earliest time you can expect to see New Haven Light?	The light is visible at 0352.	<b>0443</b>	0414	You will not sight the light.
1131	While on a heading of 082°T, you sight Stratford Shoal (Middle Ground) Light in line with Old Field Point Light bearing 206° per standard magnetic compass. From this you can determine the _____.	<b>deviation table is correct for that heading</b>	variation	compass error is 17.5°E	deviation is 3.5°E for a bearing of 206° per standard magnetic compass
1132	The maximum ebb current at a location 4.3 miles south of Stratford Point will occur at 0413. The predicted current will be 1.0 knot at 075°. What will be your course made good if you steer 082°T at 8 knots?	087°T	085°T	083°T	<b>081°T</b>
1133	The characteristic of Branford Reef Light is _____.	flashing red every 4 seconds	flashing red every 3 seconds	flashing yellow every 4 seconds	<b>flashing white every 6 seconds</b>
1134	At 0415, you take the following bearings:  Stratford Point Light 329.5°pgc Middle Ground Light 223.5°pgc Old Field Point Light 199.5°pgc  Which statement is TRUE?	The current's drift is greater than predicted.	<b>You are to the right of your intended track line.</b>	The course made good since 0352 is 081°T.	Your fathometer reads about 76 fathoms.
1135	If you change course at 0420, what is the course to make good to leave Twenty Eight Foot Shoal Lighted Buoy abeam to port at 1 mile?	086°T	<b>084°T</b>	082°T	079°T
1136	At 0430, you take the following radar ranges:  Stratford Point Light @ 5.25 nm Middle Ground Light @ 4.55 nm  What is your 0430 position?	LAT 41°08.9'N, LONG 73°00.0'W	LAT 41°05.0'N, LONG 73°01.1'W	<b>LAT 41°05.8'N, LONG 73°00.8'W</b>	LAT 41°06.5'N, LONG 73°01.4'W
1137	From your 0430 position, what is the course per standard magnetic compass to a position where Twenty-eight foot Shoal lighted buoy "TE" is abeam to port at 1 mile?	<b>101.5°</b>	098.0°	086.0°	082.5°
1138	By 0430, the wind has increased, and the visibility cleared due to passage of a front. You estimate 3° leeway due to NW'ly winds. What is the course per gyrocompass to pass 1.2 miles due south of Twenty-eight Foot Shoal Lighted Buoy "TE"?	090°	086°	083°	<b>080°</b>

1139	At 0430, you change course and speed to make good 090°T at 10 knots. At 0433, you slow due to an engineering casualty and estimate you are making good 5.5 knots. At what time will Branford Reef Light bear 000°T?	0624	0620	0609	0601																												
1140	What is the approximate distance to New Bedford, MA, from your 0530 DR position, if your 0352 position was 7 miles from Bridgeport, CT?	122 miles	115 miles	104 miles	95 miles																												
1141	At 0550, engineering repairs are complete and speed is increased to 9.6 knots. At 0630, Falkner Island Light bears 023°pgc and Horton Point Light bears 097°pgc. From your 0630 fix you steer to make good a course of 086°T while turning for 9.6 knots. At 0700, Falkner Island Light bears 336.0°pgc and Horton Point Light bears 105.5°pgc. The radar range to the south tip of Falkner Island is 5.7 miles. Which statement is TRUE?	Your course made good from 0630 to 0700 was 082°T.	The speed made good from 0630 to 0700 was 10.1 knots.	You are making good your intended speed.	The current from 0630 to 0700 was 279°T at 0.6 knot.																												
1142	The south shore of Long Island Sound from Horton Point to Orient Point is _____.	bluff and rocky	low and marshy	marked by sandy beaches and wooded uplands	bound by gradual shoaling																												
1143	Orient Point Light will break the horizon at a range of about _____.	9.3 miles	10.8 miles	12.1 miles	13.9 miles																												
1144	<p>The following questions are based on chart 12221TR, Chesapeake Bay Entrance, and the supporting publications. Your vessel draws 11 feet (3.3 meters), and your height of eye is 24 feet (7.3 meters). Use variation 10°W where necessary. The gyro error is 2°W.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>030°</td> <td>1.5°E</td> </tr> <tr> <td>060°</td> <td>3.0°E</td> </tr> <tr> <td>090°</td> <td>2.5°E</td> </tr> <tr> <td>120°</td> <td>2.0°E</td> </tr> <tr> <td>150°</td> <td>1.0°W</td> </tr> <tr> <td>180°</td> <td>3.0°W</td> </tr> <tr> <td>210°</td> <td>1.0°W</td> </tr> <tr> <td>240°</td> <td>0.0°</td> </tr> <tr> <td>270°</td> <td>0.0°</td> </tr> <tr> <td>300°</td> <td>1.0°E</td> </tr> <tr> <td>330°</td> <td>1.0°E</td> </tr> <tr> <td>360°</td> <td>1.5°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		030°	1.5°E	060°	3.0°E	090°	2.5°E	120°	2.0°E	150°	1.0°W	180°	3.0°W	210°	1.0°W	240°	0.0°	270°	0.0°	300°	1.0°E	330°	1.0°E	360°	1.5°E
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1145	At 0410, you take the following bearings:  New Point Comfort Spit Light "2"      242°T Wolf Trap Light                                313°T Horn Harbor Entrance Light "HH"      262°T  What is your 0410 position?	LAT 37°20.9'N, LONG 76°07.7'W	<b>LAT 37°21.0'N, LONG 76°08.1'W</b>	LAT 37°21.1'N, LONG 76°07.9'W	LAT 37°21.2'N, LONG 76°08.2'W
1146	If the visibility is 5 miles and you are in the red sector, at what distance off should you sight Cape Henry Light?	<b>9 miles</b>	11 miles	13 miles	15 miles
1147	From your 0410 fix, what is the course per standard magnetic compass to the entrance to York Spit Channel between buoys "37" and "38"?	152°	156°	<b>176°</b>	178°
1148	You are turning for 9 knots, a westerly wind is causing 3° of leeway, and the current is 320°T at 1.2 knots. What true course should you steer to remain in the northern leg of York Spit Channel?	203°T	197°T	<b>194°T</b>	191°T
1149	If you are making 8.3 knots over the ground, what is your ETA at the first turning point in York Spit Channel between buoys "29" and "30"?	<b>0522</b>	0508	0456	0448
1150	Which publication contains the specific information about navigating in York Spit Channel?	<b>Coast Pilot</b>	Light List	Chesapeake Bay Harbor- master's Regulations Manual	Navigator's Manual - Chesapeake Bay
1151	At 0530, the Coast Guard announces that Chesapeake Channel is closed indefinitely due to a collision occurring in the channel between Trestle "B" and "C" of the Chesapeake Bay Bridge and Tunnel. You exit York Spit Channel, leaving buoy "20" abeam to port at 0.1 mile, and alter course to leave Horseshoe Crossing Lighted Bell Buoy abeam to port at 0.2 mile. What is the course per gyrocompass?	<b>193°pgc</b>	190°pgc	187°pgc	185°pgc
1152	After you enter Thimble Shoal Channel, you will alter course to pass between Trestle "A" and "B". Which channel should you use?	Thimble Shoal Main Channel or the South Auxiliary Channel	Any of the channels but keep to the right hand side	Thimble Shoal Main Channel	<b>The South Auxiliary Channel</b>
1153	As you pass through the Chesapeake Bay Bridge and Tunnel, you sight Trestle "A" in line bearing 198°pgc. What is the gyro error?	2°E	0°	1°W	<b>2°W</b>
1154	You sighted Trestle "A" in line at 0707 and are steering 108°T. At 0731, Cape Henry Light bears 136°T; Cape Charles Light bears 032.5°T; and Thimble Shoal Tunnel South Light bears 282°T. What was the speed made good between 0707 and 0731?	9.4 knots	9.2 knots	<b>8.8 knots</b>	8.3 knots

1155	At 0731, approximately how much water is under your keel?	26 feet (7.9 meters)	<b>31 feet (9.4 meters)</b>	48 feet (14.5 meters)	54 feet (16.4 meters)																												
1156	What is the distance from your 0731 fix to Wilmington, N.C. (LAT 34°14.0'N, LONG 77°57.0'W)?	486 miles	402 miles	363 miles	<b>339 miles</b>																												
1157	You will enter waters governed by the International Rules when _____.	you cross the territorial sea boundary line	abeam of buoy "CBJ"	<b>Cape Charles Light bears 022°T</b>	you cross the boundary of the contiguous zone																												
1158	At 0812, you obtain the following radar information: Cape Henry Light bearing 284°true @ 3.8 nm What is your 0812 position?	LAT 36°53.7'N, LONG 75°56.0'W	LAT 36°53.8'N, LONG 75°56.1'W	<b>LAT 36°54.6'N, LONG 75°55.8'W</b>	LAT 36°55.2'N, LONG 75°55.4'W																												
1159	At 0812, you are on course 132°T. The standard magnetic compass reads 135°. What should you conclude?	The deviation table is correct for that heading.	You should adjust the magnetic compass.	The deviation is increasing as you go south.	<b>Your compass may be influenced by a local magnetic disturbance.</b>																												
1160	<p>The following questions are based on chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 10 feet (3.1 meters). Your height of eye is 35 feet (10.6 meters). Use 14°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1°W</td> </tr> <tr> <td>060°</td> <td>2°W</td> </tr> <tr> <td>090°</td> <td>4°W</td> </tr> <tr> <td>120°</td> <td>2°W</td> </tr> <tr> <td>150°</td> <td>1°W</td> </tr> <tr> <td>180°</td> <td>1°E</td> </tr> <tr> <td>210°</td> <td>2°E</td> </tr> <tr> <td>240°</td> <td>3°E</td> </tr> <tr> <td>270°</td> <td>3°E</td> </tr> <tr> <td>300°</td> <td>2°E</td> </tr> <tr> <td>330°</td> <td>1°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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1161	At 0345, you set a course to depart New London Harbor. Assuming no set and drift, which standard magnetic compass course must you steer to stay in the middle of the channel?	192°psc	190°psc	<b>187°psc</b>	175°psc																												

1162	Which statement regarding the wreck 0.2 mile south of buoys "1" and "2" at the entrance to New London Harbor is TRUE?	The wreck presents a danger to all vessels with drafts in excess of 30 feet (9.1 meters).	The wreck is visible above the sounding datum between the months of March and June.	The wreck was cleared by wire drag in 1982 and will not appear on future charts.	<b>The wreck is shown on the chart, but its actual existence is doubtful.</b>
1163	At 0530, your position is LAT 41°12.6'N, LONG 72°08.5'W. What is the color of New London Harbor Light?	Green	White	<b>Red</b>	Alternating white and green
1164	From your 0530 position, you set a course of 271°psc with an engine speed of 9 knots. At 0645, Cornfield Safe-Water Buoy is abeam to starboard. What speed have you averaged since 0530?	9.5 knots	9.0 knots	<b>8.6 knots</b>	7.5 knots
1165	At 0730, your position is LAT 41°10.5'N, LONG 72°32.2'W. From this position you steer course 286°psc with an engine speed of 9.0 knots. What is the approximate depth of water under your keel?	67 feet (20.3 meters)	62 feet (18.8 meters)	57 feet (17.3 meters)	<b>52 feet (15.8 meters)</b>
1166	The broken magenta line which runs parallel to the shore between Roanoke Point and Mattituck Inlet marks a _____.	<b>fish trap area</b>	pipeline	demarcation line	cable area
1167	Assuming no current, at what time can you expect to be abeam of Townshend Ledge Lighted Buoy?	<b>0910</b>	0905	0902	0859
1168	At 0730, visibility is 5.5 miles. At what time will you lose sight of Horton Point Light?	It is not visible at 0730	0733	<b>0751</b>	0812
1169	At 0820, you take the following bearings:  Falkner Island Light bearing 052°true Branford Reef Light bearing 307°true  What are the set and drift since 0730?	Set 052°T, drift 1.1 knots	Set 052°T, drift 1.3 knots	<b>Set 232°T, drift 1.3 knot</b>	Set 232°T, drift 1.1 knots
1170	At 0820, you change course to 301°psc and reduce speed to 7.5 knots. At 0900, you take the following visual bearings:  Branford Reef Light       023°psc New Haven Light         293°psc Tweed Airport Aerobeacon 332°psc  Your 0900 position is _____.	LAT 41°11.9'N, LONG 72°50.6'W	<b>LAT 41°12.1'N, LONG 72°48.6'W</b>	LAT 41°12.3'N, LONG 72°47.7'W	LAT 41°12.5'N, LONG 72°44.3'W
1171	At 0900, the current is flooding in a direction of 350°T at 1.2 knots. If your engines are turning RPMs for 9 knots, which course should you steer per standard magnetic compass to make good a course of 297° true?	319°psc	317°psc	311°psc	<b>302°psc</b>
1172	Which chart would you use for more detailed information on New Haven Harbor?	<b>12371</b>	12370	12372	12373

1173	What true course and speed did you make good between 0730 and 0900?	271°T, 8.9 knots	273°T, 8.7 knots	<b>277°T, 8.4 knots</b>	284°T, 7.5 knots																												
1174	As you enter the New Haven Outer Channel, you sight the outer range markers in line directly ahead. Your heading at this time is 347°psc. What is your compass deviation by observation?	4.5°West	3.5°West	3.0°East	<b>0.5°East</b>																												
1175	Which course should you change to per standard magnetic compass as you pass SW Ledge Light to remain in the channel?	026°psc	<b>022°psc</b>	014°psc	007°psc																												
1176	<p>The following questions are based on chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 12 feet (3.7 meters). Your height of eye is 24 feet (7.3 meters). Use 14°W variation where required.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1°W</td> </tr> <tr> <td>060°</td> <td>2°W</td> </tr> <tr> <td>090°</td> <td>4°W</td> </tr> <tr> <td>120°</td> <td>2°W</td> </tr> <tr> <td>150°</td> <td>1°W</td> </tr> <tr> <td>180°</td> <td>1°E</td> </tr> <tr> <td>210°</td> <td>2°E</td> </tr> <tr> <td>240°</td> <td>3°E</td> </tr> <tr> <td>270°</td> <td>3°E</td> </tr> <tr> <td>300°</td> <td>2°E</td> </tr> <tr> <td>330°</td> <td>1°E</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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1177	Your position is LAT 40°59.0'N, LONG 73°06.2'W. What is the course per standard magnetic compass to New Haven Harbor Lighted Whistle Buoy "NH"?	<b>052°</b>	049°	046°	035°																												
1178	You depart from the position in the previous question at 2114 and make good 12 knots on a course of 040°T. At what time will you sight New Haven Light if the visibility is 11 miles?	The light is visible at 2114.	2152	<b>2159</b>	2206																												
1179	At 2142, you take the following bearings:  Stratford Point Light                   331°T Stratford Shoal Middle Ground Light 280°T Old Field Point Light                   223°T  What is your 2142 position?	LAT 41°02.7'N, LONG 73°01.2'W	<b>LAT 41°03.0'N, LONG 73°01.7'W</b>	LAT 41°03.1'N, LONG 73°01.3'W	LAT 41°03.3'N, LONG 73°01.9'W																												

1180	What was the speed made good between 2114 and 2142?	<b>11.4 knots</b>	11.7 knots	12.0 knots	12.3 knots
1181	At 2142, you change course to make good 030°T and increase speed to 14 knots. You rendezvous with another vessel and receive fresh supplies while off New Haven Harbor lighted whistle buoy "NH". What is the light characteristic of this buoy?	( _ . )	( _ _ )	( . . )	( . _ )
1182	At 0109 you get underway, and at 0112 you take the following bearings:  Branford Reef Light bearing 051° true Stratford Point Light bearing 258° true  What is your 0112 position?	LAT 41°11.0'N, LONG 72°51.0'W	<b>LAT 41°11.4'N, LONG 72°51.3'W</b>	LAT 41°11.6'N, LONG 72°51.6'W	LAT 41°11.8'N, LONG 72°51.8'W
1183	At 0112, what is the approximate depth under the keel?	57 feet (17.3 meters)	51 feet (15.5 meters)	47 feet (14.2 meters)	<b>38 feet (11.5 meters)</b>
1184	At 0112, you are on course 124°T and turning for 12.0 knots. What course will you make good if the current is 255°T at 1.2 knots?	118°	120°	<b>129°</b>	132°
1185	Branford Reef is _____.	a hard sand shoal marked with a light	<b>completely submerged at all stages of the tide</b>	surrounded by rocks awash at low water spring tides	a small, low, sandy islet surrounded by shoal water
1186	At 0112, the radar range to Branford Reef Light is 2.9 miles. At 0125, the range is 3.6 miles. What is the position of your 0125 running fix if you are steering 124°T at 12 knots?	LAT 41°09.3'N, LONG 72°48.7'W	<b>LAT 41°09.7'N, LONG 72°48.1'W</b>	LAT 41°09.8'N, LONG 72°47.2'W	LAT 41°10.2'N, LONG 72°47.7'W
1187	At 0130, your position is LAT 41°09.3'N, LONG 72°46.9'W when you change course to 086°T. If you make good 086°T, what is the closest point of approach to Twenty-Eight Foot Shoal Lighted Buoy?	1.2 mile	1.1 mile	<b>0.9 miles</b>	0.7 miles
1188	At 0200, you take the following bearings:  Falkner Island Light 004.5°T Kelsey Pt. Breakwater Lt. 054.0°T Horton Point Light 115.0°T  What were the set and drift from 0130?	<b>260° at 1.0 knot</b>	080° at 0.5 knot	260° at 0.5 knot	There is no current.
1189	What is the distance from your 0200 position to the point where Twenty-Eight Foot Shoal lighted buoy is abeam to starboard?	7.3 miles	7.1 miles	<b>6.9 miles</b>	6.6 miles
1190	The shoreline along Rocky Point should give a good radar return because _____.	<b>the shore is bluff and rocky</b>	of offshore exposed rocks	submerged reefs cause prominent breakers	the lookout tower is marked with radar reflectors

1191	You sight Bartlett Reef Light in line with New London Harbor Light bearing 043°pgc. You are heading 088°pgc and 098.5° per standard magnetic compass at the time of the observation. Which statement is TRUE?	The true heading at the observation was 090°.	The gyro error is 2°E.	The magnetic compass error is 9.5°W.	<b>The deviation is 1.5°E by observation.</b>																										
1192	<p>The following questions are based on chart 13205TR, Block Island Sound, and the supporting publications. Your vessel has a draft of 12 feet (3.7 meters). Your height of eye is 16 feet (4.8 meters). The gyro error is 2°E. Use 15°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG MAG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>2.0°E</td></tr> <tr><td>030°</td><td>3.0°E</td></tr> <tr><td>060°</td><td>4.0°E</td></tr> <tr><td>090°</td><td>2.0°E</td></tr> <tr><td>120°</td><td>1.0°E</td></tr> <tr><td>150°</td><td>1.0°W</td></tr> <tr><td>180°</td><td>2.0°W</td></tr> <tr><td>210°</td><td>3.5°W</td></tr> <tr><td>240°</td><td>3.0°W</td></tr> <tr><td>270°</td><td>3.5°W</td></tr> <tr><td>300°</td><td>0.0°</td></tr> <tr><td>330°</td><td>1.5°E</td></tr> </tbody> </table>					HDG MAG	DEV	000°	2.0°E	030°	3.0°E	060°	4.0°E	090°	2.0°E	120°	1.0°E	150°	1.0°W	180°	2.0°W	210°	3.5°W	240°	3.0°W	270°	3.5°W	300°	0.0°	330°	1.5°E
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1193	At 0520, you take the following observations:  Point Judith Light 032°pgc Point Judith Harbor of Refuge - Main Breakwater Center Light 308°pgc  What is the position of your 0520 fix?	<b>LAT 41°20.8'N, Long 71°29.7'W</b>	LAT 41°20.6'N, Long 71°30.4'W	LAT 41°20.6'N, Long 71°30.0'W	LAT 41°20.5'N, Long 71°29.4'W																										
1194	Point Judith Harbor of Refuge _____.	is used mostly by towing vessels	has a maximum depth of 14 feet at MHW	<b>is entered through the East Gap or the West Gap</b>	is easily accessible in heavy southerly seas																										
1195	At 0520 you are on course 243°pgc at 12 knots. What is the course per standard magnetic compass?	227°psc	233°psc	258°psc	<b>262°psc</b>																										
1196	The coastline between Point Judith and Watch Hill is _____.	steep with rocky bluffs	<b>sandy and broken by rocky points</b>	low and marshy	heavily forested																										
1197	In clear weather, how far away will you sight Point Judith Light? (use charted range of 20 miles as nominal range)	<b>14.0 nm</b>	12.3 nm	10.6 nm	9.2 nm																										
1198	At what time will you cross the 60 foot curve if you make good 12 knots?	0544	0541	0534	<b>0528</b>																										



1199	The two wavy magenta lines running to Green Hill Point represent _____.	recommended approaches to Green Hill Point	a restricted anchorage area	<b>submarine cables</b>	prohibited fishing areas
1200	At 0600 you take the following bearings:  Point Judith Light bearing 063° pgc Block Island North Reef Light bearing 144° pgc  What is your 0600 position?	<b>LAT 41°18.3'N, LONG 71°38.7'W</b>	LAT 41°18.4'N, LONG 71°38.0'W	LAT 41°18.5'N, LONG 72°38.1'W	LAT 41°18.7'N, LONG 71°38.9'W
1201	What was the current between 0520 and 0600?	201° at 1.0 knot	201° at 1.5 knot	<b>021° at 1.5 knot</b>	021° at 1.0 knots
1202	From your 0600 position, what is the course per gyrocompass to leave Watch Hill Light abeam to starboard at 2.0 miles if a southerly wind is producing 3° of leeway?	262°pgc	258°pgc	256°pgc	<b>252°pgc</b>
1203	At 0645, Watch Hill Point (left tangent) bears 314.5°T at 2.75 miles. What was the speed made good between 0600 and 0645?	11.4 knots	<b>10.7 knots</b>	9.8 knots	8.1 knots
1204	At 0705, you take the following bearings:  Watch Hill Light 030.5°pgc Latimer Reef Light 329.0°pgc Race Rock Light 262.0°pgc  What was the true course made good between 0645 and 0705?	266°T	263°T	<b>256°T</b>	252°T
1205	At 0705, you change course to head for The Race. You wish to leave Race Rock Light bearing due north at 0.4 mile. If the current is 100°T, at 2.8 knots, and you are turning for 12.0 knots, what course (pgc) should you steer?	267°pgc	<b>263°pgc</b>	255°pgc	250°pgc
1206	You are bound for New London. Where will you cross the demarcation line and be governed by the Inland Rules of the Road?	You are already governed by the Inland Rules.	Above the Thames River Bridge	<b>In the Race</b>	You will not be governed by the Rules.
1207	In order to check your compasses, you sight North Dumpling Island Light in line with Latimer Reef Light bearing 074°pgc. The helmsman was steering 303°pgc and 315° per standard magnetic compass at the time.  Which of the following is TRUE?	The true line of the range is 072°.	The deviation based on the observation is 15°W.	The magnetic compass error is 12°W.	<b>The gyro error is exactly 1.5°E.</b>

1208	<p>The following questions should be answered using chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. The draft of your vessel is 12 feet (3.6 meters) and your height of eye is 16 feet (4.8 meters). Gyro error is 2°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 14°W for the entire plot.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>MAG</td><td></td></tr> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1°W</td></tr> <tr><td>060°</td><td>2°W</td></tr> <tr><td>090°</td><td>4°W</td></tr> <tr><td>120°</td><td>2°W</td></tr> <tr><td>150°</td><td>1°W</td></tr> <tr><td>180°</td><td>1°E</td></tr> <tr><td>210°</td><td>2°E</td></tr> <tr><td>240°</td><td>3°E</td></tr> <tr><td>270°</td><td>3°E</td></tr> <tr><td>300°</td><td>2°E</td></tr> <tr><td>330°</td><td>1°E</td></tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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1209	<p>You are on course 092°T, and the engines are turning for 8 knots. At 0452, you take the following bearings: Stratford Point Light 020°pgc Stratford Shoal (Middle Ground) Light 141°pgc</p> <p>What is your 0452 position?</p>	<p><b>LAT 41°05.2'N, LONG 73°07.8'W</b></p>	<p>LAT 41°05.0'N, LONG 73°07.5'W</p>	<p>LAT 41°05.0'N, LONG 73°07.3'W</p>	<p>LAT 41°04.8'N, LONG 73°07.3'W</p>																												
1210	<p>If the visibility is 10 miles, what is the earliest time you can expect to see New Haven Light?</p>	<p>0500</p>	<p>0508</p>	<p>0514</p>	<p><b>You will not sight the light.</b></p>																												
1211	<p>At 0507, Stratford Shoal Middle Ground Light bears 208°pgc. What is the position of your 0507 running fix?</p>	<p>LAT 41°04.6'N, LONG 73°04.7'W</p>	<p>LAT 41°04.8'N, LONG 73°04.8'W</p>	<p>LAT 41°04.8'N, LONG 73°04.9'W</p>	<p><b>LAT 41°05.1'N, LONG 73°05.1'W</b></p>																												
1212	<p>Based on your running fix, you _____.</p>	<p><b>have a following current</b></p>	<p>have a head current</p>	<p>are being set to the north</p>	<p>are not affected by a current</p>																												
1213	<p>Your 0507 position is about 7 miles from Bridgeport, CT. What is the distance from this position to Newport, RI?</p>	<p>114 miles</p>	<p>101 miles</p>	<p>95 miles</p>	<p><b>88 miles</b></p>																												
1214	<p>Your 0530 position is LAT 41°04.9'N, LONG 73°01.1'W. What is the course per standard magnetic compass to a position 1.0 mile south of Twenty Eight Foot Shoal "TE" buoy?</p>	<p><b>099.5°psc</b></p>	<p>096.0°psc</p>	<p>092.5°psc</p>	<p>082.0°psc</p>																												
1215	<p>The south shore of Long Island Sound near your position is _____.</p>	<p>high with numerous cliffs</p>	<p><b>fringed with rock shoals</b></p>	<p>backed by marshes and wooded uplands</p>	<p>low and marshy</p>																												

1216	At 0530, you change course to 090°T and increase speed to 8.5 knots. What is the course to steer per gyro compass if northerly winds are causing 2° of leeway?	094°pgc	092°pgc	<b>090°pgc</b>	088°pgc
1217	At 0615, Stratford Point Light bears 292°pgc, Falkner Island Light bears 052°pgc, and Branford Reef Light bears 018°pgc. What was the current since 0530?	083° at 0.9 knots	<b>083° at 1.2 knots</b>	263° at 1.2 knots	263° at 0.9 knots
1218	What is the approximate depth of the water under the keel at 0615?	<b>85 feet (25.9 meters)</b>	89 feet (27.1 meters)	95 feet (29 meters)	106 feet (32.3 meters)
1219	At 0615 you change course to 078°T. If there is no current, when will Falkner Island Light be abeam?	<b>0730</b>	0735	0743	0750
1220	At 0700, Falkner Island Light bears 023°pgc, and the range to the south tip of Falkner Island is 7.1 miles. What was the course made good since 0615?	087°T	084°T	<b>081°T</b>	078°T
1221	At 0705, the gyro loses power. At 0715, you are on course 092° per standard magnetic compass (psc) when you take the following bearings: Falkner Light bears 356°psc, Horton Point Light bears 123°psc, and Kelsey Point Breakwater Light bears 048°psc. What is the position of your 0715 fix?	LAT 41°06.7'N, LONG 72°36.0'W	<b>LAT 41°07.0'N, LONG 72°36.2'W</b>	LAT 41°07.2'N, LONG 72°36.4'W	LAT 41°07.4'N, LONG 72°36.4'W
1222	Horton Point Light _____.	is 14 feet above sea level	has a fixed green light	<b>is shown from a white square tower</b>	is synchronized with a radio beacon
1223	If visibility permits, Little Gull Island Light will break the horizon at a range of approximately _____.	18.0 miles	<b>15.6 miles</b>	12.8 miles	11.1 miles
1224	The following questions are to be answered using Chart 12221 TR, Chesapeake Bay Entrance, and supporting publications. Your vessel is enroute from New York, NY, to Baltimore, MD. Your vessel's draft is 29 feet, and your height of eye is 54 feet. Your present course is 206°T and your speed is 18 knots.				
1225	At 0705 your position is Latitude 37° 20.8' N Longitude 75° 29.9' W. If a northwesterly breeze is causing 3° leeway what is the true course to steer in order to pass Hog Island Lighted Bell Buoy "12" abeam at a distance of two miles?	212° T	<b>209° T</b>	206° T	203° T
1226	At 0725 you determined your vessel's position to be 37°15.5'N, 75°33.2'W. Assuming that you make good your course of 206° true and a speed of 18 knots, at what time would you expect to be abeam of Cape Charles Lighted Bell Buoy "14"?	0750	0754	<b>0758</b>	0802
1227	At about what time will you see Chesapeake Light if visibility is exceptionally clear?	<b>0729</b>	0733	0738	0742
1228	At 0741 you are still steering a course of 206° true, with a speed of 18 knots. At this time you observe Cape Charles Lighted Bell Buoy "14" bearing 222° true and Hog Island Lighted Bell Buoy "12" bearing 015° true . What were the set and drift experienced since 0725?	<b>259°true at 3.2 knots</b>	049°true at 2.5 knots	240° true at 1.9 knots	042°true at 3.3 knots

1229	From your 0741 position, you wish to change course in order to pass 2.2 miles easterly of Cape Charles Lighted Bell Buoy "14". Your engine speed is now 14.0 knots. You estimate the current to be 240° true at 1.8 knots. What is the true course to steer to make good the desired course?	179°true	185°true	<b>190° true</b>	197°true
1230	At 0811 your vessel's position is 37°04.9'N, 75°39.7'W. You are steering a course of 220° true at a speed of 14.0 knots. At what time would you expect the buoys in the northeasterly traffic scheme to line up, if you do not correct for a southwesterly current of 1.8 knots?	0826	0831	<b>0837</b>	0846
1231	At 0841 Chesapeake Light bears 164° true, Cape Charles Light bears 312° true, and Cape Henry Light bears 247°true. What was your course made good since 0811?	<b>226°true</b>	230°true	233° true	237°true
1232	From your 0841 position, you are steering a course of 241°true to the northeasterly inbound channel entrance, your speed is now 15 knots. What is your ETA abeam of buoy "NCA" (LL#375)?	0850	<b>0855</b>	0901	0911
1233	As you pass through the Chesapeake Bay Bridge and Tunnel, you take a bearing of 047°pgc along trestle C when it is in line. The helmsman reports the vessel's heading as 316°pgc and 329°psc. What is the deviation on that heading?	3°E	1°E	<b>1°W</b>	9°W
1234	The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. On 7 September, you are approaching Block Island Sound from sea. Your vessel has a draft of 20 feet. Equipment on board your vessel includes gyrocompass, magnetic compass, depth finder, and radar.				
1235	At 1830 your position is LAT 40° 42.5' N, LONG 72° 07.1' W. You are on course 046° T and is making turns for 9 knots. At what time will your vessel be abeam of Buoy "MP" ?	2110	2214	<b>2118</b>	2222
1236	Your 1900 position is LAT 40°45.5'N, LONG 72°03.0'W. At your 1939 DR position, what is the expected relative bearing of Montauk Point Light on the port bow?	024° relative	<b>028° relative</b>	032° relative	036° relative
1237	At 2000 Montauk Point Light bears 010°T. At 2030 Montauk Point Light bears 348°T. Assuming that you are making good your course of 046°T and a speed of 9 knots, what is your 2030 running fix position?	LAT 40°53.9'N, LONG 71°51.3'W	<b>LAT 40°57.2'N, LONG 71°49.4'W</b>	LAT 40°55.9'N, LONG 71°49.0'W	LAT 40°56.7'N, LONG 71°48.1'W
1238	At 2050 Montauk Point Light is bearing 337° true at a range of 8 nm, From this position, you change course in order to pass 1 mile due east of Montauk Point Lighted Whistle Buoy "MP". If there are no set and drift, what course must you steer?	<b>024°T</b>	028°T	032°T	036°T

1239	At 2100 your position is LAT 40°58.5'N, LONG 71°46.0'W. You are proceeding north. At 2131 Montauk Point Light has a radar range of 5.1 miles and bears 284°T. Block Island Southeast Light has a radar range of 10.8 miles. What was the course made good from your 2100 position?	005°T	011°T	017°T	025°T
1240	At 2155 Montauk Point Light bears 249°T, Watch Hill Point Light bears 335°T, and Block Island North Light bears 045°T. At this time, you wish to change course to 288°T. The current has a set of 355°T and a drift of 2.0 knots. If your vessel is turning RPM's for 9 knots, what course must you steer in order to make your desired course good?	276°T	280°T	284°T	288°T
1241	Montauk Point Light has a radar range of 3.9 miles and bears 170°T at 2232. What is the depth of water below your keel?	40 feet	60 feet	70 feet	80 feet
1242	Your 2239 position is LAT 41°08.5'N, LONG 71°53.3'W. You change course to 315°T, and you maintain RPM's for 9 knots. At 2329 Little Gull Island Light bears 253°T, Race Rock Light bears 309°T, and Watch Hill Point Light bears 058°T. What were the set and drift of the current you experienced from your 2239 position?	076°T at 0.75 knot	076°T at 0.90 knot	256°T at 0.75 knot	256°T at 0.90 knot
1243	Which nautical chart would you use to navigate into New London, CT?	13209	13211	13212	13214
1244	The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. Your vessel has just taken departure from New London harbor. Your height of eye is 65 feet and your vessel's draft is 22 feet. Use 15°W variation where required.				
1245	At 1910 you obtain the following bearings:  Bartlett Reef Light 268°T Race Rock Light 147°T Little Gull Island Light 198°T  Which of the following is your position at 1910?	LAT 41°17.4'N, LONG 72°05.6'W	LAT 41°17.0'N, LONG 72°07.1'W	LAT 41°16.6'N, LONG 72°04.6'W	LAT 41°16.2'N, LONG 72°06.4'W
1246	From your 1910 position, you set a course of 162°T at a speed of 14 knots. What is the distance off Race Rock Light when abeam of it?	.3 mile	.6 mile	.9 mile	1.2 miles
1247	At 1934 Little Gull Island Light bears 277°T and Race Rock Light bears 000°T. Which were the set and drift between 1910 and 1934?	321°T, 2.2 knots	321°T, 0.9 knots	331°T, 2.2 knots	331°T, 0.9 knots

1248	From your 1934 position, you change course to pass 2.0 miles due north of Block Island Sound South Entrance Obstruction Lighted "BIS" Buoy. If you adjust your course only (while maintaining an engine speed of 14 knots) for a set and drift of 230°T at 3.5 knots, what is your ETA and distance off when abeam of Shagwong Reef Lighted Bell Buoy "7SR"?	2003, 4.2 miles	2009, 4.2 miles	2003, 3.7 miles	<b>2009, 3.7 miles</b>															
1249	At 1959 Watch Hill Point Light bears 030°T, Montauk Point Light bears 146°T, and Little Gull Light bears 283°T. What is the approximate fathometer reading?	<b>51 feet</b>	73 feet	95 feet	111 feet															
1250	At 2038 Block Island North Light bears 065°T and Montauk Point Light bears 216°T  Which statement is TRUE?	Your speed made good between your 1959 fix and 2038 fix is 11.0 knots.	Your course made good between your 1959 fix and 2038 fix is 102°T.	At your 2038 fix, your vessel is governed by the Inland Rules of the Road.	<b>Block Island Sound South Entrance Obstruction Lighted "BIS" Buoy is located 3.6 miles off your starboard bow.</b>															
1251	From your 2038 position you change course to 104°T and increase engine speed to 18 knots. If you make good this course and speed, at what time will Southwest Ledge Lighted Bell Buoy "2" bear 157°T?	2047	<b>2052</b>	2056	2101															
1252	At 2107 Southeast Point Light bears 062°T, and at 2112 this light bears 038°T. What is your distance off Southeast Point Light at 2112? (assume no set and drift)	2.1 miles	<b>2.5 miles</b>	2.9 miles	3.3 miles															
1253	At 2132 you sight Block Island Southeast Point Light in line with the Aerobeacon (rotating white and green) bearing 308.5°pgc. The helmsman reports he was heading 106°pgc and 119°psc. What is the deviation on that heading?	4°W	2°W	<b>2°E</b>	4°E															
1254	<p>The following questions are to be answered using chart 13205 TR, Block Island Sound, and supporting publications. You are turning for 12.4 knots. Your draft is 28 feet. The gyro error is 2°E. Your course is 340°T. Your height of eye is 36 feet.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HEADING</th> <th>MAG</th> <th>DEVIATION</th> </tr> </thead> <tbody> <tr> <td>315°</td> <td></td> <td>1°E</td> </tr> <tr> <td>330°</td> <td></td> <td>1°W</td> </tr> <tr> <td>345°</td> <td></td> <td>3°W</td> </tr> <tr> <td>360°</td> <td></td> <td>5°W</td> </tr> </tbody> </table>					HEADING	MAG	DEVIATION	315°		1°E	330°		1°W	345°		3°W	360°		5°W
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1255	At 2209 your position is latitude 40° 47.7'N, longitude 71° 35.5'W. There is a strong WSW'ly wind causing an estimated 3° leeway. What course will you steer by standard magnetic compass to make good 340°T?	322°	348°	<b>356°</b>	002°
1256	From your 2209 fix you are steering course 340° T, what is the distance off Block Island Sound South Entrance Obstruction Lighted "BIS" Buoy when you are abeam of it?	<b>1.1 miles</b>	1.4 miles	1.7 miles	2.4 miles
1257	If you make good your intended course and speed, at what time will you cross the 150-foot curve?	2237	2249	<b>2256</b>	2301
1258	At 2230 you take the following visual bearings:  Montauk Point Light, Long Island 317°pgc Southeast Point Light, Block Island 009°pgc  What is your position?	LAT 40°51.2'N, LONG 71°35.9'W	LAT 40°51.5'N, LONG 71°36.4'W	LAT 40°52.2'N, LONG 71°36.6'W	<b>LAT 40°52.0'N, LONG 71°37.4'W</b>
1259	At 2302 you fix your position at LAT 40°57.8'N, LONG 71°39.3'W. What current have you experienced since your 2209 fix?	<b>105°T at 1.0 knot</b>	105°T at 0.9 knot	285°T at 1.0 knot	285°T at 0.9 knot
1260	At 2302 you change course to compensate for an estimated current of 090°T, at 1.0 knot. What course per gyrocompass will you steer to leave Endeavor Shoals Lighted Gong Buoy "3" abeam to port at 1 mile?	324°pgc	<b>327°pgc</b>	330°pgc	333°pgc
1261	After changing course to allow for a current of 090°T at 1.0 knot, what time will Endeavor Shoals Lighted Gong Buoy "3" be abeam to port?	2340	2345	<b>2350</b>	2355
1262	Where will you cross the demarcation line between the International and Inland Rules of the Road?	Between Montauk Point and Block Island	<b>In the Race</b>	At the mouth of Bridgeport Harbor	Between Plum Gut and Niantic Bay
1263	After passing through the Race, enroute to Bridgeport, CT, and Race Rock Light is 2 miles astern you notice an equal interval flashing red light on the starboard side. This light is _____.	New London Airport Aerobeacon	<b>New London Harbor Light</b>	New London Ledge Light	Bartlett Reef Light
1264	The following questions are to be answered using chart 12221 TR, Chesapeake Bay Entrance, and supporting publications. Your present course is 202°T and your vessel's engines are turning RPMs for 18 knots. Your height of eye is 54 feet (16.5 meters) and your vessel's draft is 28 feet (8.5 meters). Use 10°W variation where required.				
1265	At 0800 your position is LAT 37° 21.0' N, LONG 75° 32.0' W. Assuming that there is no set and drift, what time would your vessel cross the 60-foot curve?	0809	<b>0813</b>	0816	0822

1266	At 0800 you reduce speed from sea speed. Speed was reduced by the time you passed abeam of Hog Island Lighted Bell Buoy "12" at 0814. At this time Buoy "12" was abeam on your starboard side at a distance of 0.65 mile. Assuming you continue to make good your course of 202°T, what is your new speed if you pass abeam of Cape Charles Lighted Bell Buoy "14" at a distance of 1.5 miles at 0907?	13.6 knots	<b>12.9 knots</b>	12.3 knots	12.0 knots
1267	Visibility is exceptionally clear. At approximately what distance did Chesapeake Light become visible?	19.2 miles	<b>21.0 miles</b>	22.7 miles	24.0 miles
1268	At 0907 you change course to 224°T, and your speed is now 13.0 knots. At 0939 Chesapeake Light is bearing 168°T at a distance of 7.1 miles, and Cape Henry Light is bearing 246°T. What were the set and drift since 0907?	326°T at 0.7 knot	326°T at 1.4 knots	<b>146°T at 1.4 knots</b>	146°T at 0.7 knots
1269	From your 0939 position, you wish to change course in order to pass 0.3 mile north of Buoy "NCA" (LL#375) in the inbound traffic lane. You estimate the current to be 150°T at 2.0 knots. What course should you steer to make good the desired course? Your speed is still 13.0 knots.	232°T	235°T	<b>245°T</b>	249°T
1270	At what time will you enter the inbound traffic lane with Buoy "NCA" (LL #375) bearing 180°T at 0.3 mile?	1003	<b>0957</b>	0951	0948
1271	At 1010 your vessel passes close abeam to Buoy "NCB" in the inbound traffic lane. At this time the Chesapeake Bay Pilot informs you that he will not board your vessel until 1100. The pilot boat is located 1.5 miles northeast of Cape Henry Light. What should you reduce your speed to in order to arrive at the pilot boat at this time?	5.9 knots	7.5 knots	<b>8.2 knots</b>	9.8 knots
1272	After the pilot boards, he tells you the gyro has a 2°E error. If this is true, what should the bearing be along Trestle C of the Chesapeake Bay Bridge-Tunnel as your vessel passes abeam of it?	052°pgc	049°pgc	<b>047°pgc</b>	045°pgc
1273	Your vessel's heading is 330°pgc and 345°psc with a 2°E gyro error. What is the deviation on this heading?	0°	<b>3°W</b>	4°E	7°W



<p>The following questions are based on chart 13205TR, Block Island Sound, and the supporting publications. Your vessel draws 8 feet (2.4 meters), and the height of eye is 24 feet (7.3 meters). Use 15°W variation where required. The gyro error is 2°W.</p> <p>DEVIATION TABLE</p> <p>HDG    DEV</p> <p>030°    3.0°E  060°    1.0°E  090°    1.0°W  120°    3.0°W  150°    4.0°W  180°    4.0°W  210°    3.0°W  240°    1.0°W  270°    1.0°E  300°    3.0°E  330°    4.0°E  360°    4.0°E</p>					
1274					
1275	You are steering 087°pgc and turning for 6.8 knots. At 0600, you take the following bearings:  Little Gull Island Light bearing 089.5° pgc Bartlett Reef Light bearing 047° pgc  What is your 0600 position?	LAT 41°11.2'N, LONG 72°14.6'W	<b>LAT 41°12.1'N, LONG 72°13.8'W</b>	LAT 41°12.3'N, LONG 72°14.7'W	LAT 41°12.5'N, LONG 71°14.9'W
1276	If you change course at 0610, what is the course to steer to a point where Little Gull Island Light bears 180°T at 0.7 mile (Point "A")?	072°pgc	076°pgc	<b>080°pgc</b>	084°pgc
1277	What is your ETA at point "A"?	0640	<b>0651</b>	0655	0702
1278	You calculate that the current will be ebbing at the Race at 0700. You should expect to be set in which general direction at the Race?	West	North	Northeast	<b>East</b>
1279	From your 0610 DR, assuming no set and drift, at what time will you enter waters governed by the COLREGS?	<b>0701</b>	0705	0711	0714
1280	From point "A", you lay out an intended track line to a point where Block Island North Light bears 180°T at 2.9 miles (Point "B"). What is the length of this leg of the voyage?	20.4 miles	23.7 miles	23.9 miles	<b>24.4 miles</b>
1281	What is the course per standard magnetic compass between points "A" and "B"?	094.5°	095.5°	<b>098.5°</b>	099.5°

1282	At 0715 you take the following bearings:  Race Rock Light        328°pgc Little Gull Island Light 249°pgc Mt. Prospect Antenna 036°pgc  Based on your 0715 fix, which statement is TRUE?	<b>You are to the left of your track line.</b>	Your fathometer reads about 265 fathoms.	You are in a cable area.	You are governed by the Inland Rules.
1283	From your 0715 position, you set a course of 085°T. At 0745 you take the following bearings:  Race Rock Light                    278°pgc Watch Hill Light                    049°pgc Fisher's Island East Harbor Cupola 010°pgc  What was the current encountered between 0715 and 0745?	Set 030°T, drift 0.4 knot	Set 216°T, drift 0.3 knot	<b>Set 070°T, drift 0.6 knot</b>	Set 238°T, drift 1.0 knot
1284	The wind is southerly, and you estimate 3° leeway. Allowing for leeway, what is the course to steer from your 0745 position to pass 1 mile south of Watch Hill Buoy "WH"?	079°pgc	081°pgc	085°pgc	<b>087°pgc</b>
1285	From your 0745 fix, you change course to pass 1.0 mile south of buoy "WH" and estimate your speed at 7 knots. If the visibility clears, what is the earliest time you can expect to see Block Island North Light tower?	0750	<b>0807</b>	0838	0845
1286	Which statement describes the shore between Watch Hill Point and Point Judith?	Low, rocky cliffs with heavily wooded hills inland	<b>Sandy beaches broken by rocky points</b>	Sand dunes and beaches with a mud and sand bottom	Wooded, barren hills with isolated prominent buildings
1287	At 0830, Watch Hill Point bears 343°T at 3.5 miles by radar. What was the speed made good since 0745?	5.4 knots	5.8 knots	6.7 knots	<b>7.1 knots</b>
1288	At 0900, you take the following radar ranges:  Watch Hill Point            5.4 miles Block Island Grace Point 8.3 miles  Which statement is TRUE?	You are within 3 nautical miles of the coast.	The bottom in the area is sand and gravel.	<b>The fix is indeterminate.</b>	You are governed by the Inland Rules.
1289	At 0930, your position is LAT 41°16.5'N, LONG 71°41.4'W, and you are turning for 7 knots. Allowing 3° leeway for southerly winds and estimating the current as 035° at 0.3 knot, what is the course to steer (pgc) to point "B"?	089°pgc	091°pgc	093°pgc	<b>096°pgc</b>

1290	The following questions should be answered using chart 12221TR, and the supporting publications. The height of eye is 29 feet (8.8 meters). Your draft is 11 feet (3.4 meters). The gyro error is 2°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 10°W for the entire plot.																														
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1291	On 25 February, your vessel is berthed near Lamberts Point in Norfolk. You are preparing to sail for Baltimore and wish to be transiting York Spit Channel while the morning flood current is at its maximum speed. At what time should you be between buoys "33" and "34"? And, what will be the speed of the flood at this time?	0513, 0.8 k	<b>0810, 1.2 k</b>	0810, 1.5 k	1124, 1.2 k																										
1292	What is the distance from Lamberts Point to Thimble Shoal Lt.?	9.0 miles	9.8 miles	10.6 miles	<b>11.2 miles</b>																										
1293	You are delayed in sailing due to engineering problems. You get underway at 0630. A Coast Guard radio broadcast advises that an aircraft carrier will transit the Elizabeth River enroute Norfolk Naval Shipyard and a safety zone is in effect. Further information on how far you must remain from the carrier found is in _____.	PUB 117	Light List	<b>Coast Pilot</b>	Chart Number 1																										
1294	At 0823, Old Point Comfort Light bears 000°T at 0.6 mile. What is your 0823 position?	<b>LAT 36°59.5'N, LONG 76°18.4'W</b>	LAT 36°59.0'N, LONG 76°21.6'W	LAT 36°59.0'N, LONG 76°19.6'W	LAT 36°55.5'N, LONG 76°18.6'W																										

1295	At 0845, you are approaching the entrances to Thimble Shoal Channel. What channel must you use?	<b>The South Auxiliary Channel since your draft is less than 25 feet (7.6 meters), and you are not a passenger vessel.</b>	The South Auxiliary Channel or Thimble Shoal Channel, but you must remain on the right hand side of the main channel.	The North Auxiliary Channel since you are going to turn to a northerly heading near buoy "12".	You are not permitted to use any of the channels, but must remain outside the buoyed channel line.
1296	At 0908, you change course to 010°T. What course should you steer per standard magnetic compass?	003°	017°	<b>021°</b>	359°
1297	Visibility has decreased to 1 mile in haze. At 0948, you take the following radar ranges. What course should you steer per gyrocompass from this fix to enter the channel between buoys "19" and "20"?  Thimble Shoal Light - 5.9 miles South end of trestle C of the Chesapeake Bay Bridge and Tunnel - 3.8 miles South end of trestle B of the Chesapeake Bay Bridge and Tunnel - 5.4 miles	001°pgc	004°pgc	007°pgc	<b>010°pgc</b>
1298	If you are making 10 knots, what is your ETA at York Spit Channel Buoys "19" and "20"?	0959	1002	<b>1006</b>	1011
1299	What is the course per standard magnetic compass on the southern leg of York Spit Channel between buoys "15" and "23"?	319°	322°	<b>339°</b>	341°
1300	What is indicated by the dashed magenta line crossing York Spit Channel between buoys "20" and "22"?	You are crossing the demarcation line between the COLREGS and the Inland Rules.	<b>The line marks the limits of a regulated area.</b>	The line indicates a submarine cable, and you should not anchor in the area.	It marks the range between Hampton Roads and Cherrystone Channel.
1301	At 1015, you estimate you have 139 miles to complete the voyage. If you average 9.5 knots, you will complete the voyage in _____.	14 hours 22 minutes	14 hours 30 minutes	<b>14 hours 38 minutes</b>	14 hours 44 minutes
1302	At 1018, you are entering York Spit Channel and buoy "19" is abeam to starboard. At 1031, buoy "23" is abeam. What speed are you making good?	8.4 knots	<b>8.8 knots</b>	9.7 knots	9.9 knots
1303	The York Spit Channel width is maintained at _____.	200 feet	400 feet	600 feet	<b>800 feet</b>

1304	<p>At 1037, you are on course 010°T at 10 knots, when you take the following bearings:</p> <p>Old Plantation Flats Light bearing 125°pgc          Wolf Trap Light bearing 338°pgc          New Point Comfort Spit Light "2" bearing 286°pgc</p> <p>What is your 1037 position?</p>	LAT 37°15.9'N, LONG 76°07.1'W	<b>LAT 37°16.1'N, LONG 76°07.4'W</b>	LAT 37°16.2'N, LONG 76°07.8'W	LAT 37°16.3'N, LONG 76°07.2'W																										
1305	<p>At 1119, Wolf Trap Light bears 268°T at 4.4 miles by radar. What were the set and drift since your 1037 fix?</p>	178°, 0.5 knot	358°, 0.5 knot	178°, 0.7 knot	<b>358°, 0.7 knot</b>																										
1306	<p>The following questions are based on chart 13205TR, Block Island Sound, and the supporting publications. Your vessel has a draft of 11 feet (3.4 meters). Your height of eye is 32 feet (9.7 meters). The gyro error is 2°W. Use 15°W variation where required.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG MAG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1°W</td></tr> <tr><td>060°</td><td>2°W</td></tr> <tr><td>090°</td><td>4°W</td></tr> <tr><td>120°</td><td>2°W</td></tr> <tr><td>150°</td><td>1°W</td></tr> <tr><td>180°</td><td>1°E</td></tr> <tr><td>210°</td><td>2°E</td></tr> <tr><td>240°</td><td>3°E</td></tr> <tr><td>270°</td><td>3°E</td></tr> <tr><td>300°</td><td>2°E</td></tr> <tr><td>330°</td><td>1°E</td></tr> </tbody> </table>					HDG MAG	DEV	000°	0°	030°	1°W	060°	2°W	090°	4°W	120°	2°W	150°	1°W	180°	1°E	210°	2°E	240°	3°E	270°	3°E	300°	2°E	330°	1°E
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1307	<p>At 0227, you take the following radar ranges and bearings:</p> <p>Bartlett Reef Light 359°T at 2.4 miles          Race Rock Light 083°T at 4.1 miles</p> <p>What is your 0227 position?</p>	<b>LAT 41°14.1'N, LONG 72°08.2'W</b>	LAT 41°14.2'N, LONG 72°08.4'W	LAT 41°14.0'N, LONG 72°08.5'W	LAT 41°14.3'N, LONG 72°08.5'W																										
1308	<p>At 0227, you are on course 087°T at 10 knots. What course per standard magnetic compass should you steer to make good your true course?</p>	099°psc	102°psc	<b>105°psc</b>	109°psc																										

1309	You estimate that you are making 9.3 knots over the ground. At what time will you enter waters governed by the COLREGS?	0247	<b>0251</b>	0255	0258
1310	At 0337, fog closes in and you anchor under the following radar ranges and bearing.  South tip of Watch Hill Point 3.0 miles East point of Fishers Island 1.4 miles Latimer Reef Light 331°T  What is the approximate depth of water at your anchorage?	83 feet (25.2 meters)	<b>100 feet (30.3 meters)</b>	120 feet (36.4 meters)	135 feet (40.9 meters)
1311	By 1015, visibility has increased to 5.0 miles and you can see Fishers Island. Fishers Island has _____.	low and sandy beaches with salt ponds and marsh grass	sheer cliffs rising from the sea to a high, flat plateau	barren, rocky hills with prominent sandy beaches	<b>sparsely wooded hills and is fringed with shoals to the south</b>
1312	You get underway at 1030. The wind is out of the SSE and you estimate 3° leeway. What course should you steer per gyrocompass to make good a desired course of 075°T?	074°pgc	076°pgc	078°pgc	<b>080°pgc</b>
1313	Shortly after getting underway, your heading is 097° per standard magnetic compass, and you sight Stonington Outer Breakwater Light in line with Stonington Inner Breakwater Light bearing 000° per gyrocompass. Which statement is TRUE?	<b>The gyro error is 2.5°W.</b>	The variation is 2°E.	The compass error is 16°W.	The deviation is 2°W.
1314	At 1104, Watch Hill Point Light is in line with Stonington Outer Breakwater Light, the range to the south tip of Watch Hill Point is 2.6 miles and the range to the beach is 1.9 miles. You are steering to make good 075°T, speed 10.0 knots. At 1110, you change course to head for a position of LAT 41°05.0'N, LONG 71°50.0'W. What is the true course?	185°	187°	<b>190°</b>	193°
1315	At 1110, you increase speed to 12 knots. What is your ETA at the new position?	1157	1208	<b>1215</b>	1219
1316	At what time can you expect to cross the 120-foot curve, on your present course and speed?	1125	1122	1117	<b>1114</b>
1317	At 1345, you depart from a position 1 mile due east of Montauk Point Light and set course for Block Island Southeast Light at 9 knots. At 1430 your position is Latitude 41° 06.3' North Longitude 071° 41.9' West  What was the current encountered since 1345?	Set 015°, drift 0.5 knot	<b>Set 195°, drift 0.5 knot</b>	Set 015°, drift 0.7 knot	Set 195°, drift 0.7 knot

1318	You are encountering heavy weather. What action should you take based on your 1430 fix?	<b>Alter course to the right, to pass well clear of Southwest Ledge.</b>	Continue on the same course at the same speed.	Slow to 8.3 knots to compensate for the current.	Continue on the same course but increase speed.																						
1319	At 2100, you set course of 000°T, speed 10 knots from LAT 41°07.0'N, LONG 71°30.0'W. Visibility is 5.5 n.m. What is the earliest time you can expect to sight Point Judith Light? (Use charted range of 20 miles as nominal range.)	The light is visible at 2100.	<b>2114</b>	2123	2131																						
1320	You estimate the current to be 160°T at 1.2 knots. What should your course and speed be in order to make good a course of 000°T with a speed of advance of 10 knots?	<b>358°T at 11.1 knots</b>	358°T at 09.8 knots	002°T at 11.2 knots	002°T at 09.9 knots																						
1321	If you want to put into Point Judith Harbor of Refuge, what chart should you use?	13205	13209	13217	<b>13219</b>																						
1322	<p>The following questions are to be answered by using chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your draft is 12 feet (3.6 meters). Your height of eye is 16 feet (4.8 meters). Use 14°W for variation where required. The gyro error is 2°W. "Per Standard Magnetic Compass" is abbreviated "psc". You are on course 092°T, and the engines are turning for 8 knots.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>000°</td> <td>2.0°E</td> </tr> <tr> <td>030°</td> <td>1.0°E</td> </tr> <tr> <td>060°</td> <td>0.5°W</td> </tr> <tr> <td>120°</td> <td>1.0°W</td> </tr> <tr> <td>150°</td> <td>2.0°W</td> </tr> <tr> <td>180°</td> <td>2.0°W</td> </tr> <tr> <td>210°</td> <td>1.0°W</td> </tr> <tr> <td>270°</td> <td>0.5°E</td> </tr> <tr> <td>300°</td> <td>1.5°E</td> </tr> <tr> <td>2.5°E</td> <td></td> </tr> </tbody> </table>					HDG	DEV	000°	2.0°E	030°	1.0°E	060°	0.5°W	120°	1.0°W	150°	2.0°W	180°	2.0°W	210°	1.0°W	270°	0.5°E	300°	1.5°E	2.5°E	
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1323	<p>You are on course 092°T, and the engines are turning for 8 knots. At 0452, you take the following bearings:</p> <p>Stratford Point Light 020°pgc Stratford Shoal (Middle Ground) Light 141°pgc</p> <p>What is your 0452 position?</p>	LAT 41°05.4'N, LONG 73°07.7'W	<b>LAT 41°05.2'N, LONG 73°07.8'W</b>	LAT 41°05.2'N, LONG 73°07.5'W	LAT 41°05.1'N, LONG 73°07.7'W																						
1324	If the visibility is 10 miles, what is the earliest time you can expect to see New Haven Light?	The light is visible at 0452.	0458	0510	<b>You will not sight the light.</b>																						

1325	At 0507, Stratford Shoal Middle Ground Light bears 208°pgc. What is the position of your 0507 running fix?	LAT 41°04.8'N, LONG 73°05.0'W	LAT 41°04.9'N, LONG 73°04.8'W	<b>LAT 41°05.1'N, LONG 73°05.1'W</b>	LAT 41°05.3'N, LONG 73°04.8'W
1326	Based on your running fix, you _____.	have a head current	<b>have a following current</b>	are being set to the north	are not affected by a current
1327	Your 0507 position is about 7 miles from Bridgeport, CT. What is the distance from this position to Newport, RI?	<b>88 miles</b>	95 miles	101 miles	114 miles
1328	Your 0530 position is LAT 41°04.9'N, LONG 73°01.1'W. What is the course per standard magnetic compass to a position 1.0 mile south of Twenty Eight Foot Shoal "TE" buoy?	082.0°psc	092.5°psc	096.0°psc	<b>099.5°psc</b>
1329	The south shore of Long Island Sound near your position is _____.	marked by gradual shoaling	low and marshy	backed by marshes and wooded uplands	<b>bluff and rocky</b>
1330	At 0530, you change course to 090°T and increase speed to 8.5 knots. What is the course to steer per gyro compass if northerly winds are causing 2° of leeway?	088°pgc	<b>090°pgc</b>	092°pgc	094°pgc
1331	At 0615, Stratford Point Light bears 292°pgc, Falkner Island Light bears 052°pgc, and Branford Reef Light bears 018°pgc. What was the current since 0530?	<b>083° at 1.2 knots</b>	083° at 0.9 knots	263° at 1.2 knots	263° at 0.9 knots
1332	What should your fathometer read at 0615?	97 feet	93 feet	89 feet	<b>85 feet</b>
1333	At 0615 you change course to 078°T. If there is no current, when will Falkner Island Light be abeam?	0750	0743	0735	<b>0730</b>
1334	At 0700, Falkner Island Light bears 023°pgc, and the range to the south tip of Falkner Island is 7.1 miles. What was the course made good since 0615?	078°T	<b>081°T</b>	084°T	087°T
1335	At 0705, the gyro loses power. At 0730, you are on course 092° per standard magnetic compass (psc). Falkner Light bears 356°psc, Horton Point Light bears 123°psc, and Kelsey Point Breakwater Light bears 048°psc. What is the position of your 0730 fix?	LAT 41°06.7'N, LONG 72°36.1'W	LAT 41°06.8'N, LONG 72°36.0'W	<b>LAT 41°07.0'N, LONG 72°36.2'W</b>	LAT 41°07.2'N, LONG 72°36.1'W
1336	Horton Point Light _____.	<b>is shown from a white square tower</b>	has a fixed green light	is 14 feet above sea level	is synchronized with a radio beacon
1337	If visibility permits, Little Gull Island Light will break the horizon at a range of approximately _____.	11.1 miles	12.8 miles	<b>15.6 miles</b>	18.0 miles



1338	The following questions are based on chart 13205TR, Block Island Sound, and the supporting publications. Your vessel draws 8 feet (2.4 meters), and the height of eye is 20 feet (6.1 meters). Use 15°W variation where required. The gyro error is 3°E.																																
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1339	At 0630, you pass Buoy "PI" close abeam on the starboard side. You are steering 078°T and are headed directly toward Race Rock Light. At 0654, Little Gull Island Light is bearing 207°T and Race Rock Light is bearing 072°T. What is your 0654 position?	<b>LAT 41°14.0'N, LONG 72°05.3'W</b>	LAT 41°14.2'N, LONG 71°54.6'W	LAT 41°14.4'N, LONG 72°06.8'W	LAT 41°19.0'N, LONG 72°05.2'W																												
1340	What is your speed from your 0630 position, with Buoy "PI" close abeam, to your 0654 position?	8.2 knots	9.3 knots	<b>10.5 knots</b>	11.4 knots																												
1341	At 0700, your gyro alarm sounds. What course should you steer by the standard magnetic compass in order to maintain your original heading of 078°T?	062°psc	080°psc	090°psc	<b>095°psc</b>																												
1342	At 0705, with your gyro again functioning properly, you change course to 096°T. At this time Race Rock Light is bearing 000°T at 0.35 mile. You are now governed by which Navigation Rules?	Inland Rules	Local Pilot Rules	<b>International Rules</b>	Coastal Fishery Rules																												
1343	At 0728, Race Rock Light is bearing 282°T at 3.8 miles, and the closest point on Fishers Island is at a radar range of 2.0 miles. What speed have you been making since you changed course at 0705?	9.2 knots	<b>9.8 knots</b>	10.6 knots	11.4 knots																												
1344	At 0728, you change course to 080°T. When steady on course, the standard magnetic compass reads 097°. Which statement is TRUE?	The gyro course is 083°pgc.	The magnetic heading is 090°.	The deviation is 1.0°E.	<b>The magnetic compass error is 17°W.</b>																												

1345	At 0748, you take the following bearings:  Watch Hill Point Light bearing 020.5°pgc Race Rock Light bearing 269.5°pgc  What is the approximate depth of water at this position?	325 feet	175 feet	<b>130 feet</b>	104 feet
1346	At 0748, you change course to 160°T, speed 10 knots. At what time will you cross the 120-foot curve the first time?	<b>0754</b>	0800	0804	0808
1347	At 0815, Montauk Pt. Light House is bearing 167°T, Shagwong Pt. has a radar range of 4.5 miles, and Cerberus Shoal "9" Buoy is bearing 284°T. If the engine is making turns for 10 knots, what was the set and drift of the current since 0748?	Set 065°T, drift 1.1 knots	Set 065°T, drift 2.4 knots	Set 245°T, drift 1.1 knots	<b>Set 245°T, drift 2.4 knots</b>
1348	What action should you take to compensate for the above current?	Continue on the same course and speed.	<b>Alter your course to the left.</b>	Slow to 8.5 knots.	Alter your course to the right.
1349	At 0815, visibility is excellent and you can see Montauk Point. Montauk Point is _____.	low and rocky with scattered small pine trees	a low lying wetland	a flat wooded plain	<b>a high sandy bluff</b>
1350	At 0815, you change course to 079°T and head for the entrance of Great Salt Pond on Block Island. To compensate for a northerly wind, you estimate a 5° leeway is necessary. What course should you steer per gyrocompass to make good 079°T?	079°pgc	076°pgc	074°pgc	<b>071°pgc</b>
1351	At 0845, Montauk Pt. Light is bearing 205°T at a radar distance of 6.6 miles. What is your speed made good from your 0815 position?	<b>8.2knots</b>	9.2 knots	10.0 knots	10.5 knots
1352	As you head toward Great Salt Pond, visibility is unlimited. At what time will you lose sight of Montauk Pt. Light?	0905	0928	0950	<b>It will remain visible to Great Salt Pond.</b>
1353	Which chart should you use to enter Great Salt Pond?	13214	13205	<b>13217</b>	13207

<b>1354</b>	The following questions are based on chart 13205TR, Block Island Sound, and the supporting publications. Your vessel draws 8 feet (2.4 meters), and the height of eye is 20 feet (6.1 meters). Use 15°W variation where required. The gyro error is 3°E.																														
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<b>1355</b>	At 0630, you pass Buoy "PI" close abeam on the starboard side. You are steering 078°T and are headed directly toward Race Rock Light. At 0654, Little Gull Island Light is bearing 207°T and Race Rock Light is bearing 072°T. What is your 0654 position?	LAT 41°13.6'N, LONG 72°03.3'W	<b>LAT 41°14.0'N, LONG 72°05.3'W</b>	LAT 41°14.7'N, LONG 72°06.8'W	LAT 41°19.0'N, LONG 72°05.2'W																										
<b>1356</b>	What is your speed from your 0630 position, with Buoy "PI" close abeam, to your 0654 position?	11.4 knots	<b>10.5 knots</b>	9.3 knots	8.2 knots																										
<b>1357</b>	At 0700, your gyro alarm sounds. What course should you steer by the standard magnetic compass in order to maintain your original heading of 078°T?	<b>095°psc</b>	090°psc	080°psc	062°psc																										
<b>1358</b>	At 0705, with your gyro again functioning properly, you change course to 096°T. At this time Race Rock Light is bearing 000°T at 0.35 mile. You are now governed by which Navigation Rules?	<b>International Rules</b>	Local Pilot Rules	Inland Rules	Coastal Fishery Rules																										
<b>1359</b>	At 0728, Race Rock Light is bearing 282°T at 3.8 miles, and the closest point on Fishers Island is at a radar range of 2.1 miles. What speed have you been making since you changed course at 0705?	11.4 knots	10.6 knots	<b>9.9 knots</b>	9.2 knots																										
<b>1360</b>	At 0728, you change course to 080°T. When steady on course, the standard magnetic compass reads 097°. Which statement is TRUE?	<b>The magnetic compass error is 17°W</b>	The magnetic heading is 090°	The deviation is 1.0°E	The gyro course is 083°pgc																										

1361	At 0748, you take the following bearings: Watch Hill Point Light bearing 020.5° pgc Race Rock Light bearing 269.5° pgc  What is the approximate depth of water at this position?	104 feet	<b>130 feet</b>	175 feet	325 feet
1362	At 0748, you change course to 160°T, speed 10 knots. At what time will you cross the 120-foot curve the first time?	0750	<b>0754</b>	0759	0808
1363	At 0815, Montauk Pt. Light House is bearing 167°T, Shagwong Pt. has a radar range of 4.5 miles, and Cerberus Shoal "9" Buoy is bearing 284°T. If the engine is making turns for 10 knots, what was the set and drift of the current since 0748?	Set 065°T, drift 1.1 knots	Set 065°T, drift 2.4 knots	<b>Set 245°T, drift 2.4 knots</b>	Set 245°T, drift 1.1 knots
1364	What action should you take to compensate for the above current?	Continue on the same course and speed.	Alter your course to the right.	Slow to 8.5 knots.	<b>Alter your course to the left.</b>
1365	At 0815, visibility is excellent and you can see Montauk Point. Montauk Point is _____.	low and rocky with scattered small pine trees	a low lying wetland	<b>a high sandy bluff</b>	a flat wooded plain
1366	At 0815, you change course to 079°T and head for the entrance of Great Salt Pond on Block Island. To compensate for a northerly wind, you estimate a 5° leeway is necessary. What course should you steer per gyrocompass to make good 079°T?	<b>071°pgc</b>	074°pgc	076°pgc	079°pgc
1367	At 0845, Montauk Pt. Light is bearing 205°T at a radar distance of 6.6 miles. What is your speed made good from your 0815 position?	10.5 knots	10.0 knots	9.2 knots	<b>8.4 knots</b>
1368	As you head toward Great Salt Pond, visibility is unlimited. At what time will you lose sight of Montauk Pt. Light?	0905	0928	0950	<b>It will remain visible to Great Salt Pond.</b>
1369	Which chart should you use to enter Great Salt Pond?	13205	13207	13214	<b>13217</b>

1370	The following questions should be answered using chart 13205TR, Block Island Sound and approaches, and the supporting publications. Your draft is 18 feet (5.4 meters) and the height of eye is 20 feet (6.1 meters). Gyro error is 3°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 15°W for the entire plot.				
	DEVIATION TABLE				
	HDG    DEV MAG				
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240°    1.5°E					
270°    2.0°E					
300°    1.0°E					
330°    0.5°W					
1371	At 0630, Buoy "PI" is close abeam on the starboard side. You are steering 078°T and are headed directly toward Race Rock Light. At 0654, Little Gull Island Light is bearing 210°pgc and Race Rock Light is bearing 075°pgc. What is your 0654 position?	LAT 41°19.0'N, LONG 72°05.2'W	LAT 41°14.4'N, LONG 71°54.6'W	LAT 41°14.2'N, LONG 72°06.8'W	<b>LAT 41°14.0'N, LONG 72°05.3'W</b>
1372	What was the course made good from 0630 to 0654?	078°T	<b>082°T</b>	086°T	090°T
1373	What course should you steer by the standard magnetic compass in order to maintain a heading of 081°pgc?	062°psc	080°psc	090°psc	<b>095°psc</b>
1374	At 0705, you change course to 096°T. At this time, Race Rock Light is bearing 000°T at 0.35 mile. You are now governed by which Navigation Rules?	<b>COLREGS</b>	Local Pilot Rules	Inland Rules	Coastal Fishery Rules
1375	At 0728, Race Rock Light is bearing 282°T at 3.8 miles, and the closest point on Fishers Island has a radar range of 2.1 miles. What speed have you been making since you changed course at 0705?	11.2 knots	10.8 knots	<b>9.6 knots</b>	9.1 knots
1376	At 0727, the cupola on Fishers Island is in line with Latimer Reef Light bearing 024°pgc. Based on this, the gyro error is _____.	2°E	1°E	0°	<b>3°W</b>

1377	At 0748, you take the following bearings:  Watch Hill Point Light bearing 026.5°pgc Race Rock Light bearing 275.5°pgc  What is the approximate depth of water under the keel at this position?	325 feet (98.5 meters)	175 feet (53.0 meters)	130 feet (39.4 meters)	<b>112 feet (33.9 meters)</b>
1378	At 0748, you change course to 160°T, speed 10 knots. At what time will you cross the 120-foot curve the first time?	<b>0754</b>	0800	0804	0808
1379	At 0815, Montauk Pt. Light House is bearing 172°T, Shagwong Pt. has a radar range of 4.5 miles. If the engine was making turns for 10 knots, what was the current since 0748?	Set 040°T, drift 0.7 knots	Set 040°T, drift 1.6 knots	<b>Set 220°T, drift 1.6 knots</b>	Set 220°T, drift 0.7 knots
1380	Which action should you take to compensate for the above current?	Continue on the same course and speed.	<b>Alter your course to the left.</b>	Slow to 8.5 knots.	Alter your course to the right.
1381	At 0815, visibility is excellent and you can see Montauk Point. Montauk Point Light is _____.	shown from a brown tower	equipped with a fog diaphone	<b>lighted 24 hours</b>	is 79 feet (24 meters) high
1382	At 0815, you change course to 079°T. To compensate for a southerly wind, you estimate a 3° leeway is necessary. Which course should you steer per standard magnetic compass to make good 079°T?	090°psc	093°psc	095°psc	<b>099°psc</b>
1383	At 0839, Montauk Pt. Light is bearing 205°T at a radar distance of 6.6 miles. What is your speed made good from your 0815 position?	8.2 knots	<b>9.2 knots</b>	10.0 knots	10.5 knots
1384	The area between Block Island and Montauk Point that is bounded by dashed magenta lines is a _____.	naval exercise area	fish trap area	<b>submerged cable area</b>	restricted navigation area
1385	Which chart should you use to enter Great Salt Pond?	13204	13205	13207	<b>13217</b>

<p>The following questions are based on chart 13205TR, Block Island Sound, and the supporting publications. Your vessel draws 8 feet (2.4 meters), and the height of eye is 24 feet (7.3 meters). Use 15°W variation where required. The gyro error is 2°W.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>030°</td> <td>3.0°E</td> </tr> <tr> <td>060°</td> <td>1.0°E</td> </tr> <tr> <td>090°</td> <td>1.0°W</td> </tr> <tr> <td>120°</td> <td>3.0°W</td> </tr> <tr> <td>150°</td> <td>4.0°W</td> </tr> <tr> <td>180°</td> <td>4.0°W</td> </tr> <tr> <td>210°</td> <td>3.0°W</td> </tr> <tr> <td>240°</td> <td>1.0°W</td> </tr> <tr> <td>270°</td> <td>1.0°E</td> </tr> <tr> <td>300°</td> <td>3.0°E</td> </tr> <tr> <td>330°</td> <td>4.0°E</td> </tr> <tr> <td>360°</td> <td>4.0°E</td> </tr> </tbody> </table>						HDG	DEV	MAG		030°	3.0°E	060°	1.0°E	090°	1.0°W	120°	3.0°W	150°	4.0°W	180°	4.0°W	210°	3.0°W	240°	1.0°W	270°	1.0°E	300°	3.0°E	330°	4.0°E	360°	4.0°E
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1386																																	
1387	<p>You are steering 087° pgc and turning for 6.8 knots. At 0600, you take the following bearings:</p> <p>Little Gull Island Light bearing 089.5° pgc Bartlett Reef Light bearing 047 ° pgc</p> <p>What is your 0600 position?</p>	LAT 41°11.2'N, LONG 72°14.6'W	LAT 41°11.7'N, LONG 72°14.4'W	<b>LAT 41°12.1'N, LONG 72°13.8'W</b>	LAT 41°12.5'N, LONG 71°14.9'W																												
1388	<p>If you change course at 0610, what is the course to steer to a point where Little Gull Island Light bears 180°T at 0.7 mile (Point "A")?</p>	084°pgc	<b>080°pgc</b>	076°pgc	072°pgc																												
1389	<p>What is your ETA at point "A"?</p>	0702	0655	<b>0651</b>	0640																												
1390	<p>You calculate that the current will be ebbing at the Race at 0700. You should expect to be set in which general direction at the Race?</p>	West	<b>East</b>	Northeast	North																												
1391	<p>If your fathometer is set to fathoms, it should read approximately _____ at point "A"?</p>	38 fathoms	35 fathoms	<b>28 fathoms</b>	24 fathoms																												
1392	<p>From point "A", you lay out an intended track line to a point where Block Island North Light bears 180°T at 2.9 miles (Point "B"). What is the length of this leg of the voyage?</p>	<b>24.4 miles</b>	23.9 miles	23.7 miles	20.4 miles																												
1393	<p>What is the course per standard magnetic compass between points "A" and "B"?</p>	099.5°	<b>098.5°</b>	095.5°	094.5°																												

1394	At 0715 you take the following bearings:  Race Rock Light      328°pgc Little Gull Island Light   249°pgc Mt. Prospect Antenna   036°pgc  Based on your 0715 fix, which statement is TRUE?	You are governed by the Inland Rules.	Your fathometer reads about 265 fathoms.	You are in a cable area.	<b>You are to the left of your track line.</b>
1395	From your 0715 position, you set a course of 085°T. At 0745 you take the following bearings:  Race Rock Light                      278°pgc Watch Hill Light                      049°pgc Fisher's Island East Harbor Cupola   010°pgc  What was the current encountered between 0715 and 0745?	Set 030°T, drift 0.4 knot	Set 216°T, drift 0.3 knot	Set 238°T, drift 0.9 knot	<b>Set 070°T, drift 0.6 knot</b>
1396	The wind is southerly, and you estimate 3° leeway. Allowing for leeway, what is the course to steer from your 0745 position to pass 1 mile south of Watch Hill Buoy "WH"?	<b>087°pgc</b>	085°pgc	081°pgc	079°pgc
1397	From your 0745 fix, you change course to pass 1.0 mile south of buoy "WH" and estimate your speed at 7 knots. If the visibility clears, what is the earliest time you can expect to see Block Island North Light tower?	0845	0838	<b>0807</b>	0750
1398	Which statement describes the shore between Watch Hill Point and Point Judith?	Low, rocky cliffs	Heavily wooded hills	<b>Sandy beaches broken by rocky points</b>	Barren hills with prominent buildings
1399	At 0830, Watch Hill Point bears 343°T at 3.5 miles by radar. What was the speed made good since 0745?	<b>7.1 knots</b>	6.7 knots	5.8 knots	5.4 knots
1400	At 0900, you take the following radar ranges:  Watch Hill Point                      5.4 miles Block Island Grace Point   8.3 miles  Which statement about this fix is TRUE?	You are to the left of the track line.	The bottom in the area is sand and gravel.	You are governed by the Inland Rules.	<b>The fix is indeterminate.</b>
1401	At 0930, your position is LAT 41°16.5'N, LONG 71°41.4'W, and you are turning for 7 knots. Allowing 3° leeway for southerly winds and estimating the current as 035° at 0.3 knot, what is the course to steer (pgc) to point "B"?	<b>096°pgc</b>	094°pgc	091°pgc	089°pgc



The following questions should be answered using chart 13205TR, Block Island Sound and approaches, and the supporting publications. Your vessel draws 8 feet (2.4 meters) and the height of eye is 24 feet (7.3 meters). Gyro error is 2°E. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 15°W for the entire plot.

DEVIATION TABLE

HDG    DEV  
MAG

1402

030°    3.0°E  
060°    1.0°E  
090°    1.0°W  
120°    3.0°W  
150°    4.0°W  
180°    4.0°W  
210°    3.0°W  
240°    1.0°W  
270°    1.0°E  
300°    3.0°E  
330°    4.0°E  
360°    4.0°E

1403	You are steering 087°pgc and turning for 6.8 knots. At 0600, you take the following bearings:  Little Gull Island Light bearing 085.5°pgc Bartlett Reef Light bearing 043°pgc  What is your 0600 position?	<b>LAT 41°12.1'N, LONG 72°13.8'W</b>	LAT 41°12.1'N, LONG 72°14.6'W	LAT 41°12.3'N, LONG 72°14.7'W	LAT 41°12.5'N, LONG 71°14.9'W
1404	If you change course at 0610, what is the course to steer per gyro compass to a point where Little Gull Island Light bears 180°T at 0.7 mile (Point "A")?	072°pgc	<b>076°pgc</b>	080°pgc	084°pgc
1405	What is your ETA at point "A"?	0637	0643	<b>0649</b>	0700
1406	You calculate that the current will be flooding at the Race at 0700. You should expect to be set in which general direction at the Race?	<b>West</b>	East	Northeast	Southwest
1407	If your fathometer is set to fathoms, it should read _____ at point "A".	42 fathoms	38 fathoms	35 fathoms	<b>28 fathoms</b>
1408	From point "A", you lay out an intended track line to a point where Block Island North Light bears 180°T at 2.9 miles (Point "B"). What is the length of this leg of the voyage?	20.4 miles	23.7 miles	<b>24.4 miles</b>	25.3 miles
1409	What is the course per standard magnetic compass between points "A" and "B"?	090.5°	093.0°	095.5°	<b>098.5°</b>

1410	At 0715, you take the following bearings:  Race Rock Light        324°pgc Little Gull Island Light   245°pgc Mt. Prospect Antenna   034°pgc  Based on your 0715 fix, which statement is TRUE?	You are to the right of your track line.	<b>The charted depth is about 265 feet (80.3 meters).</b>	You are in a cable area.	You are governed by the Inland Rules.
1411	From your 0715 position, you set a course of 085°T. At 0745, you take the following bearings:  Race Rock Light                    274°pgc Watch Hill Point Light            045°pgc Fisher's Island East Harbor Cupola 006°pgc  What was the current encountered between 0715 and 0745?	Set 030°T, drift 0.4 knot	<b>Set 070°T, drift 0.7 knot</b>	Set 210°T, drift 0.8 knot	Set 238°T, drift 1.0 knot
1412	The wind is northerly, and you estimate 3° leeway. Allowing for leeway what is the course to steer per gyro compass from your 0745 position to pass 1 mile south of Watch Hill Buoy "WH"?	<b>077°pgc</b>	082°pgc	085°pgc	087°pgc
1413	From your 0745 fix, you change course to pass 1.0 mile south of buoy "WH" and estimate your speed at 7 knots. If the visibility clears, what is the earliest time you can expect to see Block Island North Light tower?	The tower is in sight at 0745.	0750	<b>0806</b>	0838
1414	Which statement describes the shore between Watch Hill Point and Point Judith?	Low, rocky cliffs with heavily wooded hills inland	<b>Sandy beaches broken by rocky points</b>	Sand dunes and beaches with a mud and sand bottom	Wooded, barren hills with isolated prominent buildings
1415	At 0830, Watch Hill Point bears 343°T at 3.5 miles by radar. What was the speed made good since 0745?	<b>7.1 knots</b>	6.7 knots	5.8 knots	5.4 knots
1416	At 0900, you take the following radar ranges:  Watch Hill Point            5.4 miles Block Island Grace Point 8.3 miles  Which statement is TRUE?	You are to the right of the track line.	The bottom in the area is sand and gravel.	You are inside of the Territorial Sea.	<b>The fix is indeterminate.</b>
1417	At 0930, your position is LAT 41°16.5'N, LONG 71°41.4'W, and you are turning for 7 knots. Allowing 3° leeway for northerly winds and estimating the current as 035° at 0.3 knot, what is the course to steer (pgc) to point "B"?	084°pgc	<b>086°pgc</b>	091°pgc	094°pgc

1418	<p>The following questions should be answered using chart 13205TR, Block Island Sound and approaches, and the supporting publications. You are steering a westerly course and approaching Block Island Sound. The gyro error is 2°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 15°W for the entire plot.</p> <p>DEVIATION TABLE</p> <table border="1"> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr><td>MAG</td><td></td></tr> <tr><td>000°</td><td>0°</td></tr> <tr><td>030°</td><td>1.0°W</td></tr> <tr><td>060°</td><td>3.0°W</td></tr> <tr><td>090°</td><td>2.0°W</td></tr> <tr><td>120°</td><td>1.0°W</td></tr> <tr><td>150°</td><td>0°</td></tr> <tr><td>180°</td><td>0°</td></tr> <tr><td>210°</td><td>1.0°E</td></tr> <tr><td>240°</td><td>2.0°E</td></tr> <tr><td>270°</td><td>1.5°E</td></tr> <tr><td>300°</td><td>1.0°E</td></tr> <tr><td>330°</td><td>0°</td></tr> </tbody> </table>	HDG	DEV	MAG		000°	0°	030°	1.0°W	060°	3.0°W	090°	2.0°W	120°	1.0°W	150°	0°	180°	0°	210°	1.0°E	240°	2.0°E	270°	1.5°E	300°	1.0°E	330°	0°				
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1419	<p>You are underway in the vicinity of Block Island and obtain the following lines of position:</p> <p>Montauk Point Light 267°pgc          Block Island Southeast Light 030°pgc          Radar Bearing to Block Island Southwest Point (tangent) 352°pgc</p> <p>What is your position at the time of these sightings?</p>	LAT 41°05.2'N, LONG 71°36.2'W	<b>LAT 41°05.3'N, LONG 71°35.8'W</b>	LAT 41°05.4'N, LONG 71°36.0'W	LAT 41°05.4'N, LONG 71°35.9'W																												
1420	Which course would you steer by your standard magnetic compass to make good a course of 275°T?	266°psc	272°psc	<b>289°psc</b>	294°psc																												
1421	From your position you observe a rotating white and green light to the north. This light is most likely _____.	<b>at an airport</b>	on a naval mine-countermeasures vessel	"Block Island North Light"	on a vessel engaged in public safety activity																												
1422	At 1800, your position is LAT 41°06.5'N, LONG 71°43.5'W. How should the buoy which bears 030°T from your position at a range of approximately 0.5 mile be painted?	Horizontally banded, red over green, with a red buoyancy chamber	<b>Horizontally banded, green over red, with a green buoyancy chamber</b>	Vertically striped, red and green	Solid red with green letters "BIS"																												

1423	From your 1800 position, you steer a course of 355°psc at a speed of 10.0 knots. At 1830, your position is LAT 41°11.7'N, LONG 71°45.8'W. What are the set and drift of the current?	<b>005°T, 1.0 knot</b>	005°T, 0.5 knots	180°T, 0.5 knot	208°T, 1.0 knots
1424	From your 1830 fix, you come left to a course of 290°T. Which statement concerning Watch Hill Light is TRUE?	The nominal range of its white light is 16 miles.	<b>It displays both red and white lights.</b>	Its horn blasts every 15 seconds in fog.	Its geographic range is 18.5 miles at a 35-foot (10.7 meters) height of eye.
1425	At 1850, you obtain the following bearings and distance:  Block Island North Light 085°T Watch Hill Light 342°T 5.8 miles  What true speed did you make good between 1830 and 1850?	2.9 knots	5.7 knots	<b>8.0 knots</b>	8.7 knots
1426	If your height of eye is 45 feet (13.7 meters), what is the approximate geographic range of Block Island North Light?	7.8 nm	8.9 nm	13.0 nm	<b>16.7 nm</b>
1427	What is the depth of water at your 1850 position?	<b>120 feet</b>	135 feet	140 feet	156 feet
1428	At 1915, you obtain the following bearings and distances:  Watch Hill Light 018 °T, 5.3 miles Montauk Point Light 169 °T, 9.1 miles  What is your 1915 position?	LAT 41°13.6'N, LONG 71°54.0'W	<b>LAT 41°13.2'N, LONG 71°53.7'W</b>	LAT 41°13.4'N, LONG 71°53.1'W	LAT 41°14.4'N, LONG 71°53.7'W
1429	If you were to head into New London Harbor, which chart should you switch to for the best detail?	13209	13212	<b>13213</b>	13214
1430	From your 1915 position, you come left and set a course for Gardiners Point. At 1930, your position is LAT 41°12.7'N, LONG 71°56.8'W. What type of bottom is charted at this position?	Blue mud, gritty shells	Buried mussels, gritty shells	<b>Blue mud, gray sand</b>	Bumpy mud with gravel surface
1431	From your 1930 position, you plot a course to pass 0.5 mile due south of Race Rock Light. If your vessel's speed is 8.0 knots, the current's set and drift are 040°T at 1.4 knots, and a south wind produces a 3° leeway, what true course should you steer to make good your desired course?	<b>275°T</b>	280°T	290°T	294°T
1432	The short-long dashed magenta line around Gardiners Island marks _____.	a regulated anchorage	<b>fish trap areas</b>	an area closed to the public	underwater cables

1433	NOAA VHF-FM weather broadcasts from Providence, RI are on _____.	162.25 MHz	162.30 MHz	<b>162.40 MHz</b>	162.55 MHz																												
1434	<p>The following questions should be answered using chart number 13205TR, Block Island and Approaches, and supporting publications. You are steering a westerly course and approaching Block Island Sound. The variation for the area is 15°W. The gyro error is 2°E.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1.0°W</td> </tr> <tr> <td>060°</td> <td>3.0°W</td> </tr> <tr> <td>090°</td> <td>2.0°W</td> </tr> <tr> <td>120°</td> <td>1.0°W</td> </tr> <tr> <td>150°</td> <td>0°</td> </tr> <tr> <td>180°</td> <td>0°</td> </tr> <tr> <td>210°</td> <td>1.0°E</td> </tr> <tr> <td>240°</td> <td>2.0°E</td> </tr> <tr> <td>270°</td> <td>1.5°E</td> </tr> <tr> <td>300°</td> <td>1.0°E</td> </tr> <tr> <td>330°</td> <td>0°</td> </tr> </tbody> </table>					HDG	DEV	MAG		000°	0°	030°	1.0°W	060°	3.0°W	090°	2.0°W	120°	1.0°W	150°	0°	180°	0°	210°	1.0°E	240°	2.0°E	270°	1.5°E	300°	1.0°E	330°	0°
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1435	<p>You are underway in the vicinity of Block Island and obtain the following lines of position:</p> <p>Montauk Point Light                    263°pgc  Block Island Southeast Light        026°pgc  Radar Bearing to Block Island Southwest Point 348°pgc</p> <p>What is your position at the time of these sightings?</p>	LAT 41°05.0'N, LONG 71°36.2'W	<b>LAT 41°05.3'N, LONG 71°35.8'W</b>	LAT 41°05.3'N, LONG 71°35.1'W	LAT 41°05.4'N, LONG 71°35.0'W																												
1436	What course should you steer by your standard magnetic compass to make good a course of 280°T?	<b>294°psc</b>	290°psc	272°psc	266°psc																												
1437	Which statement concerning Montauk Point Light is TRUE?	The light comes on at sunset.	<b>There is an emergency light if the main light is extinguished.</b>	The height of the light is 24 feet.	The tower is painted with black and white stripes.																												
1438	At 1800, your position is LAT 41°06.5'N, LONG 71°43.5'W. How would the buoy which bears 030°T from your position at a range of approximately 0.5 mile be painted?	Horizontally banded, red over green	<b>Horizontally banded, green over red</b>	Vertically striped, red and green	Solid green with red letters "BIS"																												

1439	From your 1800 position you steer a course of 350°psc at a speed of 10.0 knots. At 1830, your position is LAT 41°11.7'N, LONG 71°45.8'W. What are the set and drift of the current?	<b>029°T, 1.4 knot</b>	029°T, 0.7 knots	209°T, 0.7 knot	209°T, 1.4 knots
1440	From your 1830 fix, you come left to a course of 290°T. Which of the following statements concerning Watch Hill Light is FALSE?	The nominal range of its white light is 15 miles.	It displays both red and white lights.	<b>Its geographic range is 18.5 miles at a 35 foot (10.7 meter) height of eye.</b>	Its horn blasts every 30 seconds in fog.
1441	At 1850, you obtain the following bearings and distances:  Montauk Point 189°pgc 8.7 miles Watch Hill Light 340°pgc 5.7 miles  What true course did you make good between 1830 and 1850?	<b>293°T</b>	297°T	299°T	305°T
1442	If your height of eye is 35 feet (10.7 meters), what is the approximate geographic range of Block Island North Light?	7.4 nm	13.0 nm	<b>15.8 nm</b>	17.5 nm
1443	What is the water depth at your 1850 position?	105 feet	<b>120 feet</b>	135 feet	142 feet
1444	At 1915, you obtain the following bearings and distances:  Watch Hill Light 018°T @ 5.3 miles Montauk Point Light 169°T @ 9.1 miles  What is your 1915 position?	LAT 41°13.0'N, LONG 71°54.1'W	LAT 41°13.0'N, LONG 71°53.9'W	<b>LAT 41°13.2'N, LONG 71°53.7'W</b>	LAT 41°13.4'N, LONG 71°53.4'W
1445	If you were to head into Fishers Island Sound, which of the following charts would you switch to for better detail of Mystic and Mystic Harbor?	13209	13212	<b>13214</b>	13215
1446	From your 1915 position, you come left and set a course for Gardiners Point. At 1930, your position is LAT 41°12.7'N, LONG 71°56.8'W. What type of bottom is charted at this position?	Blue mud, gritty shells	Buried mussels, gritty shells	Bumpy muck with grainy surface	<b>Blue mud, gray sand</b>
1447	From your 1930 position, you plot a course to pass 0.5 mile due south of Race Rock Light. If your vessel's speed is 10.0 knots, the current's set and drift are 040°T at 1.8 knots, and a north wind produces a 3° leeway, what true course should you steer to make good your desired course?	300°T	295°T	290°T	<b>280°T</b>

1448	As an option to heading into Long Island Sound, you consider anchoring in the vicinity of the Gardiners Point Ruins at the north end of Gardiners Island. What is the minimum recommended distance from the ruins for fishing, trawling, or anchoring?	1.0 mile	0.8 mile	0.5 mile	<b>300 yards (91 meters)</b>																										
1449	NOAA VHF-FM weather broadcasts from New London, CT are on _____.	<b>162.55 MHz</b>	162.40 MHz	162.30 MHz	162.25 MHz																										
1450	<p>The following questions should be answered using chart number 12354TR, Long Island Sound - Eastern Part, and the supporting publications. Your vessel has a draft of 9 feet (2.7 meters). You are turning for 7.5 knots. Your height of eye is 25 feet (7.6meters). The variation for the area is 14°W.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1.0°W</td> </tr> <tr> <td>060°</td> <td>3.0°W</td> </tr> <tr> <td>090°</td> <td>2.0°W</td> </tr> <tr> <td>120°</td> <td>1.0°W</td> </tr> <tr> <td>150°</td> <td>0°</td> </tr> <tr> <td>180°</td> <td>0°</td> </tr> <tr> <td>210°</td> <td>1.0°E</td> </tr> <tr> <td>240°</td> <td>2.0°E</td> </tr> <tr> <td>270°</td> <td>1.5°E</td> </tr> <tr> <td>300°</td> <td>1.0°E</td> </tr> <tr> <td>330°</td> <td>0°</td> </tr> </tbody> </table>					HDG	DEV	000°	0°	030°	1.0°W	060°	3.0°W	090°	2.0°W	120°	1.0°W	150°	0°	180°	0°	210°	1.0°E	240°	2.0°E	270°	1.5°E	300°	1.0°E	330°	0°
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1451	As you enter the New Haven Outer Channel, you sight the range markers in line directly over the stern. Your heading at the time is 155.5° per gyrocompass. What is the gyro error?	1.0°E	1.0°W	2.0°E	<b>2.0°W</b>																										
1452	At 0720, you are in the outer channel between buoy "1" and buoy "2" and change course to pass Townshend Ledge Lighted Bell Buoy "10A" abeam to port at 200 yards. What is your ETA off the buoy?	0745	0741	<b>0738</b>	0734																										
1453	At 0740, you take the following Radar Ranges:  Branford Reef Light @ 2.5 nm New Haven Light @ 3.9 nm  What is your position?	<b>LAT 41°12.4'N, LONG 72°51.5'W</b>	LAT 41°12.6'N, LONG 72°51.8'W	LAT 41°12.7'N, LONG 72°51.9'W	LAT 41°12.2'N, LONG 72°52.0'W																										

1454	From your 0740 position, you change course to pass 1.1 miles north of Falkner Island Light. A northerly wind is causing a 2° leeway. What gyro course should you steer in order to ensure that you will remain clear of the 18' shoal located 1 mile NW of Falkner Island Light?	<b>081° pgc</b>	085 ° pgc	079 ° pgc	077 ° pgc
1455	At 0802, Branford Reef Light bears 348°T at 0.75 mile, and the north point of Falkner Island bears 088°T at 6.7 miles. What were the set and drift since 0740?	Set 040°T, drift .2 knot	Set 220°T, drift .2 knot	<b>Set 220°T, drift .6 knot</b>	You are making good your intended course and speed.
1456	What publication contains information on the navigational hazards in the vicinity of Falkner Island?	The navigational regulations in Title 46, Code of Federal Regulations	<b>U.S. Coast Pilot</b>	U.S. Coast Guard Light List	Inland Navigation Rules
1457	If there is no current, what is the course per standard magnetic compass from your 0802 fix to the position 1.1 miles north of Falkner Island Light?	099°	<b>095°</b>	068°	064°
1458	At 0830, you wish to get the latest weather forecasts for the Falkner Island area. On what frequency would you set your FM radio for this information?	2181 kHz	<b>162.40 Mhz</b>	156.80 Mhz	156.65 Mhz
1459	At 0844, the range to the north end of Falkner Island is 2.0 miles and the left tangent bearing is 102°T. What is the approximate charted depth of the water?	<b>29 ft (8.8 meters)</b>	22 ft (6.7 meters)	19 ft (5.8 meters)	14 ft (4.2 meters)
1460	At 0925, you plot the following bearings and range:  Falkner Island Light bearing 251°true @ 1.7nm Kelsey Point BW Light bearing 075°true  If you correct for a current setting 215°T at 0.5 knot, what course will you steer from the 0925 position to arrive at a position 0.5 mile south of Long Sand Shoal West End Horn Buoy "W"?	102°T	096°T	093°T	<b>088°T</b>
1461	If you correct for the current in the previous question (215°T at 0.5 knot) and maintain an engine speed of 7.5 knots, what is your ETA 0.5 mile south of buoy "W"?	1014	1018	1021	<b>1026</b>
1462	At what approximate distance would you expect Bartlett Reef Light to break the horizon, if the visibility is 27 nautical miles?	<b>12.8 nm</b>	12.0 nm	6.9 nm	5.9 nm
1463	At 1038, you are 0.4 mile south of Long Sand Shoal Buoy "8A" on course 090°T If you continue on your present course to the approaches of New London which of the following is true?	<b>You are governed by the inland rules of the road.</b>	You are entering a restricted area	You will clear Plum Island Whistle buoy at a range of 0.4 nm.	You switch to chart 13214.
1464	At 1200, your position is 2.0 miles southwest of Bartlett Reef Light. Your heading is 075°T. Visibility is less than 0.2 mile in fog and rain. Which of the following signals is most likely to be from another vessel?	Whistle from 125° relative	Bell from 350° relative	<b>Whistle from 075° relative</b>	Horn from 330° relative



1465	What chart should you use after you enter New London Harbor?	13211	13214	<b>13213</b>	13272																												
1466	<p>The following questions should be answered using chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications. The draft of your vessel is 10 feet and your height of eye is 25 feet. Gyro error is 2°W. "Per standard magnetic compass" is abbreviated "psc". Use a variation of 14°W for the entire plot.</p> <p>DEVIATION TABLE</p> <table> <thead> <tr> <th>HDG</th> <th>DEV</th> </tr> </thead> <tbody> <tr> <td>MAG</td> <td></td> </tr> <tr> <td>000°</td> <td>0°</td> </tr> <tr> <td>030°</td> <td>1.0°W</td> </tr> <tr> <td>060°</td> <td>3.0°W</td> </tr> <tr> <td>090°</td> <td>2.0°W</td> </tr> <tr> <td>120°</td> <td>1.0°W</td> </tr> <tr> <td>150°</td> <td>0°</td> </tr> <tr> <td>180°</td> <td>0°</td> </tr> <tr> <td>210°</td> <td>1.0°E</td> </tr> <tr> <td>240°</td> <td>2.0°E</td> </tr> <tr> <td>270°</td> <td>1.5°E</td> </tr> <tr> <td>300°</td> <td>1.0°E</td> </tr> <tr> <td>330°</td> <td>0°</td> </tr> </tbody> </table> <p>On 04 December 1983, you are departing New London Harbor. At 1712, you are between buoys "1" and "2" on a course of 250°psc turning for 8.4 knots.</p>					HDG	DEV	MAG		000°	0°	030°	1.0°W	060°	3.0°W	090°	2.0°W	120°	1.0°W	150°	0°	180°	0°	210°	1.0°E	240°	2.0°E	270°	1.5°E	300°	1.0°E	330°	0°
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300°	1.0°E																																
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1467	At 1732, Bartlett Reef Lt bears 016°psc. Race Rock Lt bears 125.5°psc with a radar range of 4.4 miles. What is the set and drift?	116°, 0.4 knot	116°, 1.0 knot	296°, 0.4 knot	<b>296°, 1.0 knot</b>																												
1468	From your 1750 GPS position at LAT 41°15.6'N, LONG 072°11.5'W, you plot a course of 255°T at 8.5 kts. At what time would you see Falkner Island Light, if visibility is 10 miles?	1819	<b>1850</b>	1910	1917																												
1469	You are on course 255° T. Which of the following is true?	You are governed by the International Rules of the Road.	You will pass through an area of the 30 fathom curve.	<b>At times of extreme low tide Six Mile Reef may be a danger to your vessel.</b>	You will leave Six Mile Reef buoy "8C" abeam to port at 1.1 mile.																												
1470	At 1930 you obtain two radar ranges: Hammonasset Point at 4.1 miles and the East side of Falkner Island at 7.6 miles. What is your position?	LAT 41°11.2'N, LONG 072°30.6'W	<b>LAT 41°11.7'N, LONG 072°29.2'W</b>	LAT 41°11.8'N, LONG 072°29.6'W	LAT 41°11.9'N, LONG 072°29.2'W																												

1471	At 2000 you plot your position as: LAT 41°11'N, LONG 072°35'W. The set and drift is 095°T at 0.8 knot. What course must you steer, and what engine speed must you turn, in order to make good 255°T at 8.5 knots?	<b>257°T, 9.3 knots</b>	253°T, 9.3 knots	257°T, 7.7 knots	253°T, 7.7 knots
1472	At 2100 Branford Reef Light bears 349°psc and Falkner Island Light bears 064°psc. Your heading is 255°T. What is the relative bearing of Joshua Point Light?	030°	105°	<b>135°</b>	225°
1473	What VHF frequency would you use to listen to a weather forecast for the eastern part of Long Island Sound?	156.65 MHz	156.85 MHz	<b>162.475 MHz</b>	162.775 MHz
1474	At 2130 New Haven buoy "NH" bears 337° per gyro compass and Middle Ground Lt bears 254° per gyro compass. You must arrive 0.3 miles off Port Jefferson buoy "PJ" at 2300. What speed will you have to make good, for arrival at 2300?	9.0 knots	<b>9.3 knots</b>	9.6 knots	10.7 knots
1475	From the 2130 position, you steer 236°T at 10 knots. A strong northerly wind is causing 4° of leeway. What course must you steer per standard compass, to make good 236°T?	232° psc	240° psc	244° psc	<b>252° psc</b>
1476	You have maneuvered for traffic and at 2215 you obtain the following radar information:  Middle Ground Light bearing 287° pgc @ 6.65 nm  What course must you steer to arrive at buoy "PJ", passing 0.5 nm off "Mt Misery Shoal"?	237° psc	257° psc	<b>261° psc</b>	265° psc
1477	Which statement best describes the shoreline at Mount Misery?	Wooded, barren hills with a rocky beach	Low, rocky cliffs with heavily wooded hills inland	Sand dunes and beaches with a mud and sand bottom	<b>Sand bluffs 60 feet high and banks dug out by sand and gravel companies</b>
1478	What chart would you need to enter Port Jefferson Harbor?	<b>12362</b>	12364	12369	12370
1479	At 2315, you are notified that the Port Jefferson pilot will be delayed. Old Field Point Light bears 257°T, Stratford Shoal Middle Ground Light bears 355°T and Port Jefferson East Breakwater Light bears 171°T. What is the depth under the keel at this time on December 4, 1983?	41 feet	<b>47 feet</b>	51 feet	57 feet
1480	What will be the current at Port Jefferson entrance at 0130 on December 5, 1983?	1.4 knots, flood	1.4 knots, ebb	0.8 knot, flood	<b>0.8 knot, ebb</b>
1481	At 0145 you take on the pilot and are inbound Port Jefferson. The ship's heading is 147°pgc when lined up on the Port Jefferson range. What is your gyro error?	<b>1° W</b>	1° E	2° E	0°

1482	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  At 0630, on 15 March, you are upbound on the Lower Mississippi River passing Kaiser Aluminum & Chemical Corp. (mile 234.0 AHP).				
1483	The horizontal clearance of the center span on the Baton Rouge RR and Highway Bridge (mile 233.9 AHP) is _____.	443	500	<b>623</b>	748
1484	You are upbound approaching Springfield Bend Lt. (mile 244.8 AHP) downriver from Profit Island. Which of the following statements is TRUE?	Profit Island Chute is open to navigation and is a shortcut for single-barge tows.	Tow length must not exceed 600 feet to use Profit Island Chute.	<b>Profit Island Chute is closed to navigation.</b>	Tows must navigate towards right descending bank when passing Profit Island Chute.
1485	At 1042, on 16 March, you are passing the Vicksburg Gage (mile 437.0 AHP). What has been the average current since 0630, 15 March, if you have been making turns for 8.0 mph?	0.2 mph	0.5 mph	<b>0.8 mph</b>	1.2 mph
1486	Which of the following statements regarding buoys on the Mississippi River is TRUE?	The positions of river buoys can be found in the latest edition of Light List-Vol. V.	<b>Buoy positions on the chart are approximate.</b>	The buoys are maintained on station year round.	The buoys do not shift positions due to permanent moorings.
1487	What is the mile point of the Arkansas City Gage?	<b>554.1 AHP</b>	556.8 AHP	560.0 AHP	562.8 AHP
1488	The highest point on your towboat is 53 feet above the water, and the Helena Gage (mile 663 AHP) reads 6.7 feet. What is the vertical clearance when you pass under the Helena Highway Bridge in Helena?	<b>59.9 feet</b>	62.5 feet	64.1 feet	65.5 feet
1489	You are passing the Memphis Gage at 0405, 18 March. If you are turning for 8 mph and estimate the current at 0.9 mph, what is your ETA at Cairo Point, IL (mile 954.5 AHP)?	0447, 19 Mar	<b>1052, 19 Mar</b>	1518, 19 Mar	1808, 19 Mar
1490	At what time would you listen to VHF Channel 22 (157.1 MHz) for information concerning the stage of the river between Memphis and Cairo?	1115	1235	<b>1300</b>	1815
1491	What type of daymark will you see as you approach Gold Dust Bar Light (mile 793.3 AHP) ?	<b>Red diamond</b>	Red triangle	Green square	Green diamond
1492	What is the distance from Cairo Point, IL, to Arkansas City?	28 miles	110 miles	292 miles	<b>400 miles</b>

<b>1493</b>	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  On 3 January you get underway from Cambalick Dock, Morganza, LA, (mile 278.3 AHP) enroute to the Socony - Mobil Oil Docks (east side), LDB, in St. Louis.				
<b>1494</b>	What is the length of the trip?	899.6 miles	878.9 miles	<b>851.9 miles</b>	726.0 miles
<b>1495</b>	What are the dimensions of the Old River Lock on the Lower Old River (304 AHP)?	<b>1190 x 75 feet</b>	1195 x 75 feet	1195 x 84 feet	1202 x 84 feet
<b>1496</b>	At 2126, you pass Morganza Bend Light (mile 278.4 AHP). At 0122, 4 January, you pass Red River Landing Gage (302.4 AHP). You have been turning for 7.5 mph. What is the current?	<b>1.4 MPH</b>	1.8 MPH	2.7 MPH	6.2 MPH
<b>1497</b>	The Gage at Red River Landing reads 22.2 feet. The low water reference plane for Red River is 10.6 feet. How many feet is this above the low water reference plane?	10.6 ft	<b>11.6 ft</b>	22.2 ft	32.8 ft
<b>1498</b>	The river will be temporarily closed to navigation at mile 531.3 AHP due to repairs to the bridge. This will occur at 1300, 5 January, and last for six hours. What minimum speed over the ground must you make from Red River Landing Gage in order not to be delayed?	6.0 mph	<b>6.4 mph</b>	6.8 mph	7.3 mph
<b>1499</b>	What type of daymark will you see as you approach Joe Pierce Light (mile 335.4 AHP)?	Private aid - no daymark	Red square	<b>Red triangle</b>	Red diamond
<b>1500</b>	What is the vertical clearance of the Natchez Highway Bridge (westbound) when the river level is the same as the Low Water Reference Plane (6.1 ft)?	102.2 ft	108.3 ft	<b>119.4 ft</b>	125.6 ft
<b>1501</b>	The Natchez Gage reads 20.6 feet. The high point on your towboat is 47 feet above the water. What is the vertical clearance as you pass under the Natchez Highway Bridge?	<b>58.0 feet</b>	64.1 feet	72.5 feet	78.6 feet
<b>1502</b>	In order to determine what buoys, if any, are in place at Concordia Bar crossing (mile 596.0 AHP), what should you check?	Bulletin board at the Rosedale Gage	Waterways Journal	<b>Notice to Mariners</b>	Light List
<b>1503</b>	The area between Island 67 Upper Light (mile 623.1 AHP) and Sunflower Cut-off Foot Light (mile 624.8 AHP) is known as a _____.	transit	chute	<b>crossing</b>	slough

1504	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers On 21 September, you are making up your tow at the fleeting area in Cairo, IL (mile 980.6 Ohio River). You get underway at 0952 enroute to New Orleans with a mixed tow.				
1505	You are turning for 7.8 mph and estimate the current at 1.0 mph. What is your speed over the ground?	<b>8.8 mph</b>	7.9 mph	7.8 mph	6.8 mph
1506	What is your ETA at the Memphis Highway Bridge?	0828, 22 Sept	<b>1052, 22 Sept</b>	1405, 22 Sept	1813, 22 Sept
1507	What daymark should you see as you approach Parker Landing Light (mile 924.6 AHP)?	Green square	Green triangle	Red and green rectangle	<b>Green diamond</b>
1508	You pass Morrison Towhead Light (mile 890.5 AHP) at 1723. What was your average speed since leaving Cairo?	7.5 mph	7.8 mph	<b>8.5 mph</b>	8.8 mph
1509	At 1723 you increase speed to make good 9.2 mph. At 1937 you have a daymark on your port beam. What daymark is this?	Tiptonville Ferry Landing Daymark	Tiptonville Light	<b>Merriwether Bend Light and Daymark</b>	Alaska Light and Daymark
1510	The charts show a circle with two black quadrants located at mile 846.0 AHP. What does this indicate?	Hazardous chemical dock	Bulletin Board	Betz-Tipton Veneers Terminal	<b>River Gage</b>
1511	The Helena Gage reads 9.4 feet. The high point on your towboat is 46 feet above water. What is the vertical clearance when you pass under the Helena Highway Bridge?	56.0 feet	<b>64.2 feet</b>	79.5 feet	106.1 feet
1512	What company does NOT have a marine facility along the river bank in Helena (mile 658 to 665 AHP)?	<b>Helena Grain Co.</b>	Helena Port Terminal, Inc.	Arkansas Power & Light Co.	Texas Eastern Pipeline Co.
1513	If the Rosedale Gage reads -0.5 feet, what is the water level if the low water reference plane for Rosedale is 3.0 feet?	0.5 foot below the plane	0.5 foot above the plane	2.5 feet above the plane	<b>3.5 feet below the plane</b>
1514	Which of the following describes the river at Cypress Bend, mile 569.0 AHP?	There are revetments on both banks.	<b>The river is three tenths of a mile wide.</b>	There is dredge spoil on both banks.	There is a turning basin located on the LDB.
1515	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers At 1015 on 16 April, you are at the Amoco Pipeline Co. Docks (253.6 AHP), when you get underway, enroute Institute, WV, with a tow of eight barges carrying molten sulphur.				
1516	What is the distance from the Amoco Pipeline Co. Docks at Baton Rouge, LA, to the mouth of the Ohio River?	<b>700.2 miles</b>	727.9 miles	953.5 miles	981.5 miles

1517	As you approach Shreves cut-off you see Red River Landing Gage (302.4 AHP) which reads 6.2 feet. The Low Water Reference Plane (LWRP) for Red River is 10.6. Which of the following statements is TRUE?	<b>This reading is at 4.4 ft. below the Low Water Reference Plane.</b>	This reading is 6.2 ft. above the Low Water Reference Plane.	The depth of water at Red River Landing is 6.2 ft.	A vessel drawing 7 ft. would be able to pass through the locks at Lower Old River.
1518	You pass Red River Gage at 2015 on 16 April and estimate the current will average 3.5 mph for the remainder of the time on the Mississippi River. What is your ETA at the mouth of the Ohio River if you continue to turn for 10 mph?	1445, 20 April	1830, 20 April	<b>0028, 21 April</b>	0821, 21 April
1519	What is the vertical clearance between the highest point of your towboat, if it is 58 feet above the water, and if the Natchez Gage reads 28.13 feet when passing under the Natchez Upper Highway Bridge?	15.9 feet	33.2 feet	<b>39.9 feet</b>	45.4 feet
1520	In high water conditions, which publication would you consult for the latest information on buoys between Baton Rouge and Cairo?	<b>U.S.C.G. Local Notice to Mariners</b>	U.S.C.G. Light List	Army Corps. of Engineers Navigation Chart	List of Buoys and Daymarks
1521	As you approach Giles Bend Cutoff Light (mile 367.7 AHP), what type of daymark would you see on the light structure?	Green diamond	Green triangle	<b>Red triangle</b>	Red diamond
1522	At 0305 on 18 April, you pass under the Greenville Bridge (mile 531.3 AHP). What was your average speed since departing Amoco Pipeline Co. Docks (mile 253.6 AHP)?	6.2 mph	6.5 mph	<b>6.8 mph</b>	7.2 mph
1523	A stretch where the channel changes from one side of the river to the other is called a _____.	passing	transit	transfer	<b>crossing</b>
1524	The black broken-line marking, across the river, that appears at mile 952.1 AHP represents a _____.	<b>utility crossing</b>	railroad	submarine crossing	revetment
1525	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>On 16 October, you depart the Formosa Plastics mooring facility at mile 233.5 AHP with six loaded tank barges enroute to the Agrico Chemical dock, Herculaneum, MO (mile 153.4 UMR). Your engines are making turns for 6.5 mph in still water.</p>				
1526	What is the total length of the trip?	<b>873.7 miles</b>	900.7 miles	901.4 miles	910.6 miles
1527	You estimate the current at 3.0 mph. What is the speed over the ground?	9.5 mph	7.5 mph	4.5 mph	<b>3.5 mph</b>
1528	What are the dimensions of the channel maintained at Baton Rouge, LA?	30 feet x 300 feet	<b>45 feet x 500 feet</b>	30 feet x 500 feet	40 feet x 300 feet

1529	You pass Springfield Bend Lt. (mile 244.8 AHP) at 1242, on 17 October, and estimate the current will average 2.5 mph for the remainder of your trip. What is your ETA at the mouth of the Ohio River if you are making turns for 10.5 mph?	1905, 19 October	2122, 19 October	0232, 21 October	<b>0519, 21 October</b>
1530	As you pass under the Natchez-Vidalia Dual Bridge, the gage on the bridge reads -3.6 feet. If the highest point on your vessel is 62 ft. above the water, what is your vertical clearance?	122.0 feet	<b>67.6 feet</b>	63.6 feet	60.0 feet
1531	What are the color and shape of Anconia Pt. Light at mile 528.6 AHP?	<b>Green - Diamond</b>	Green - Square	Red - Triangle	Red - Square
1532	At 1227, on 19 October, you pass under the Greenville Highway Bridge (mile 531.3 AHP). What speed must you average to arrive at Jimmy Hawken Light (mile 663.5 AHP) at 0930 the following day?	<b>6.3 mph</b>	5.9 mph	5.6 mph	5.2 mph
1533	Which of the following statements regarding aids to navigation shown in the Army Corps. of Engineers map book is TRUE?	The U.S. Army Corps.. of Engineers is responsible for placing and maintaining all aids to navigation.	Buoy positions as shown on the chart are exact.	<b>Buoys should always be given as wide a berth as possible.</b>	Lights and daymarks are always shown in their exact location.
1534	The Delta-Friar Point revetment on the LMR extends from mile _____.	648.5 - 645.5 LDB	652.8 - 649.6 RDB	<b>657.3 - 652.2 LDB</b>	645.6 - 641.4 RDB
1535	What is the distance from Greenville, MS, to St. Louis, MO, on the Mississippi River System?	832 miles	733 miles	<b>597 miles</b>	566 miles
1536	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 1745, on 25 August, you depart Memphis Harbor, McKellar Lake (mile 726.0 AHP - LMR) enroute to Baton Rouge, LA, with a tow of twelve empty gasoline barges.</p>				
1537	You have received orders to proceed to the Amoco Pipeline Co. (mile 253.6 AHP) above Baton Rouge. If your vessel is making turns for 9 mph with an estimated average current of 1.5 mph, what is your ETA at the Amoco docks?	0844, 28 Aug	1454, 28 Aug	<b>1444, 27 Aug</b>	2214, 27 Aug
1538	The highest point on your towboat is 52 feet above the water, and the Helena Gage reads +9.6 feet. What is the vertical clearance when you pass under the A-span of the Helena Highway Bridge?	73.1 feet	<b>58.0 feet</b>	53.9 feet	49.8 feet

1539	You are in charge of a vessel that damages an aid to navigation established and maintained by the United States. Which statement is TRUE?	You must take the aid in tow and deliver it to the nearest Coast Guard, Marine Safety Office.	<b>You must report the accident to the nearest Officer in Charge, Marine Inspection.</b>	You may wait until you reach your destination before reporting the allision to the U.S. Coast Guard.	You must report the allision to the nearest Corps. of Engineers office.
1540	At 2342, on 25 August, you pass under the Helena Highway Bridge (mile 661.7 AHP). What has been the average speed of the current since departing Memphis Harbor, McKellar Lake, if you have been making turns for 9 mph?	5.6 mph	4.4 mph	2.1 mph	<b>1.8 mph</b>
1541	What is the distance in river miles, from the new mouth of the White River to the RR and Hwy bridge at Baton Rouge, LA?	384 miles	370 miles	<b>365 miles</b>	358 miles
1542	The Clinch River empties into which river?	Arkansas	Mississippi	<b>Tennessee</b>	Ohio
1543	As you pass under the Greenville Highway Bridge, you estimate the current as 4.5 mph. What is the speed over the ground, if your vessel is making turns for 9 mph?	<b>13.5 mph</b>	14.5 mph	15.5 mph	16.5 mph
1544	As you approach Anconia Pt. Light (mile 528.6 AHP), which type of dayboard would you see on the light structure?	Green diamond	<b>Green square</b>	Red square	Red diamond
1545	You are downbound when you observe on your Mississippi River map a white square with a number inside located on either bank. This indicates _____.	<b>a facilities display number</b>	a river mile marker	a daybeacon	a river gage
1546	What are the dimensions of Old River Lock, on the Lower Mississippi River?	<b>1190 feet x 75 feet</b>	1045 feet x 75 feet	760 feet x 75 feet	425 feet x 75 feet
1547	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers At 1707, on 23 May, you get underway from mile 234.2 AHP enroute to Louisville, KY (mile 612.6 OR).				
1548	What is the length of the trip?	1566.4 miles	1334.6 miles	1332.2 miles	<b>1088.0 miles</b>
1549	After you get underway, what is the first river gage you will pass?	<b>Bayou Sara</b>	Baton Rouge	Head of Passes	Red River Landing
1550	The Red River Landing Gage reads 5.2 feet. The Low Water Reference Plane for the Red River is 10.6 ft. Which of the following statements is TRUE?	The depth over revetment at Old River is 25.2 feet.	<b>River level is below the Low Water Reference Plane.</b>	The depth over Old River Lock sill is greater than 11 ft.	This gage reading is at a higher elevation than the same reading on the Gage at Head of Passes.
1551	At 0922, on 24 May, you are abreast the St. Catherine Bar Lt. (mile 348.6 AHP). If you are turning for 8.0 mph, what is the current?	7.0 mph	2.0 mph	1.4 mph	<b>1.0 mph</b>



1552	What daymark will you see as you approach Warnicott Bar Lt. (mile 351.3 AHP)?	Red diamond	Red triangle	White square	<b>Green square</b>
1553	You pass Warnicott Bar Lt. at 1146, 24 May. What is your ETA off the Mhoon Landing Gage if you average 6.5 mph?	0909, 27 May	<b>1528, 26 May</b>	0426, 26 May	0152, 26 May
1554	What town is located at mile 389.8 AHP?	Whitehall	Belmont	<b>Rodney</b>	St. James
1555	What is the width of the navigable channel at Grand Gulf Island Light (mile 404.9 AHP) ?	<b>0.455 mile</b>	0.62 miles	0.71 mile	0.8 miles
1556	The Greenville Gage reads 10.6 feet. The high point of your towboat is 54 feet above water. What is the vertical clearance as you pass under the Greenville Highway Bridge?	75.4 feet	<b>65.4 feet</b>	54.2 feet	44.4 feet
1557	In addition to the Army Corps. of Engineers maps, data on bridge clearances may be found in the _____.	<b>Light List</b>	Waterways Journal	Army Corps. of Engineers Regulations	Channel Report
1558	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>On 3 January, you get underway from Morganza, LA, (mile 278.3 AHP) enroute to the Eagle Marine Docks, LDB, in St. Louis.</p>				
1559	What is the length of the trip?	726.0 miles	<b>851.9 miles</b>	878.9 miles	879.6 miles
1560	What are the dimensions of the Old River Lock on the Lower Old River (mile 304 AHP)?	1202 x 84 feet	1200 x 75 feet	1195 x 75 feet	<b>1190 x 75 feet</b>
1561	At 2126, you pass Morganza Bend Light (mile 278.4 AHP). At 0122, 4 January, you pass Red River Landing Gage (302.4 AHP). You have been turning for 7.5 mph. What is the current?	6.2 mph	2.7 mph	1.8 mph	<b>1.4 mph</b>
1562	The Gage at Red River Landing reads 22.2 feet. The LWRP for Red River is 10.6 feet. What is the water level in relation to the low water reference plane?	32.8 ft below	32.8 ft above	11.6 ft below	<b>11.6 ft above</b>
1563	The river will be temporarily closed to navigation at mile 531.3 AHP due to repairs to the bridge. This will occur at 1300, 5 January, and last for six hours. What minimum speed over the ground must you make from Red River Landing Gage in order not to be delayed?	7.3 mph	6.8 mph	<b>6.4 mph</b>	6.0 mph
1564	Which type of daymark will you see as you approach Joe Pierce Light (mile 335.4 AHP)?	<b>Red Triangle</b>	Red square	Red diamond	Private aid - no daymark
1565	What is the vertical clearance of the Natchez-Vidalia Highway Bridge (westbound) when the river level is the same as the Low Water Reference Plane (6.5 feet)?	125.6 ft	<b>119.5 ft</b>	108.3 ft	102.2 ft

1566	The Natchez Gage reads 20.6 feet. The high point on your towboat is 47 feet above the water. What is the vertical clearance as you pass under the Natchez Highway Bridge?	78.6 feet	72.5 feet	64.1 feet	<b>58.4 feet</b>
1567	In order to determine what buoys, if any, are in place at Concordia Bar crossing (mile 596.0 AHP), what should you check?	<b>Local Notice to Mariners</b>	Waterways Journal	Bulletin Board at the Rosedale Gage	Light List
1568	The area between Island 67 Upper Light (mile 623.1 AHP) and Sunflower Cut-off Foot Light (mile 624.8 AHP) is known as a _____.	<b>crossing</b>	chute	transit	slough
1569	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers On 21 September, you are making up your tow at the fleeting area in Cairo, IL (mile 980.6 Ohio River). You get underway at 0952 enroute to New Orleans with a mixed tow.				
1570	You are turning for 7.8 mph and estimate the current at 1.0 mph. What is your speed over the ground?	6.8 mph	7.8 mph	7.9 mph	<b>8.8 mph</b>
1571	What is your ETA at the Memphis Highway Bridge?	1813, 22 Sept	1405, 22 Sept	<b>1052, 22 Sept</b>	0828, 22 Sept
1572	What daymark should you see as you approach Parker Landing Light (mile 924.6 AHP)?	Green square	<b>Green diamond</b>	Red and green rectangle	Green triangle
1573	You pass Morrison Towhead Light (mile 890.5 AHP) at 1723. What was your average speed since leaving Cairo?	8.8 mph	<b>8.5 mph</b>	7.8 mph	7.5 mph
1574	At 1723 you increase speed to make good 9.2 mph. At 1937 you have a daymark on your port beam. What daymark is this?	Tiptonville Ferry Landing Daymark	Tiptonville Light	Alaska Light and Daymark	<b>Merriwether Bend Light and Daymark</b>
1575	The map shows a circle with two black quadrants located at mile 846.4 AHP. What does this indicate?	<b>A river gage</b>	A bulletin Board	The grain elevator at Bunge Grain	A culvert with a sluice gate
1576	The Helena Gage reads 9.4 feet. The high point on your towboat is 46 feet above water. What is the vertical clearance when you pass under the Helena Highway Bridge?	106.1 feet	79.5 feet	<b>64.2 feet</b>	56.0 feet
1577	Which company does NOT have a marine facility along the river bank in Helena (mile 658 to 665 AHP)?	Riceland Food Corps..	Helena Marine Services, Inc.	<b>Helena Grain Co.</b>	Texas Eastern Pipeline Co.
1578	If the Rosedale Gage reads -0.5 feet, what is the water level in relation to the low water reference plane? The low water reference plane (LWRP) for Rosedale, MS. is 3.0 feet.	<b>3.5 foot below the plane</b>	2.5 foot above the plane	0.5 feet above the plane	0.5 feet below the plane
1579	Which light characteristics does Catfish Point Lower Light (mile 572.2 AHP) have?	<b>2 red flashes every 5 seconds</b>	5 red flashes every 2 seconds	2 white flashes every 5 seconds	3 red flashes every 5 seconds

1580	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers At 1015, on 16 April, you are at the Amoco Pipeline Co. Docks (253.6 AHP), when you get underway, enroute Institute, WV with a tow of eight barges carrying molten sulphur.				
1581	What is the distance from the Amoco Docks at Baton Rouge, LA, to the mouth of the Ohio River?	981.5 miles	953.5 miles	727.9 miles	<b>700.2 miles</b>
1582	You are turning for 10 mph, approaching Angola, LA. Angola reports that the current at Red River Landing is estimated at 4.5 mph. Which of the following statements is TRUE?	<b>You should expect to encounter vessels crossing the river at mile 300.5 AHP</b>	You are making 14.5 mph over the ground.	You would expect to find a more favorable current near the broken red line in the river.	Hog Pt. Light and Hog Pt. Lower Light may be used as range lights when entering Shreves cut-off.
1583	As you approach Shreves cut-off you see Red River Landing Gage (mile 302.4 AHP) which reads 6.2 feet. Which of the following statements is TRUE?	This reading is 6.2 feet above the Low Water Reference Plane.	<b>This reading is at the same elevation as the 6.2 ft. mark on the Gage at Head of Passes.</b>	The depth of water at Red River Landing is 6.2 ft.	A vessel drawing 7 ft. would be able to pass through the locks at Lower Old River.
1584	You pass Red River Gage at 2015 on 16 April and estimate the current will average 3.5 mph for the remainder of the time on the Mississippi River. What is your ETA at the mouth of the Ohio River if you continue to turn for 10 mph?	0821, 21 April	<b>0028, 21 April</b>	1830, 20 April	1445, 20 April
1585	What is the vertical clearance between the highest point of your towboat, if it is 58 feet above the water, and if the Natchez Gage reads 28.13 feet when passing under the Natchez Upper Highway Bridge?	45.4 feet	<b>39.3 feet</b>	33.2 feet	15.9 feet
1586	In high water conditions, which publication would you consult for the latest information on buoys between Baton Rouge and Cairo?	Army Corps. of Engineers Navigation Chart	U.S.C.G. Light List	<b>U.S.C.G. Local Notice to Mariners</b>	List of Buoys and Daymarks
1587	As you approach Giles Bend Cutoff Light (mile 367.7 AHP), what type of daymark would you see on the light structure?	None	Red diamond	Red square	<b>Red triangle</b>
1588	At 0305 on 18 April, you pass under the Greenville Bridge (mile 531.3 AHP). What was your average speed since departing Amoco Pipeline Co. Docks (mile 253.6 AHP)?	7.2 mph	<b>6.8 mph</b>	6.5 mph	6.2 mph
1589	A stretch where the channel changes from one side of the river to the other is called a _____.	<b>crossing</b>	transit	transfer	passing
1590	Which light characteristics does Quaker Oats Light (mile 952.6) have?	1 red flash every four seconds	2 green flashes every 5 seconds	2 red flashes every 4 seconds	<b>2 red flashes every 5 seconds</b>

1591	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  At 0630, on 15 March, you are upbound on the Lower Mississippi River passing Kaiser Aluminum & Chemical Corp. (mile 234.0 AHP).				
1592	The latest available information on the channel conditions above Baton Rouge that includes the latest buoy information, as well as recommended courses, is found in the _____.	Corps. of Engineers maps	Waterways Journal	<b>Local Notice to Mariners</b>	Sailing Directions
1593	You are upbound approaching Springfield Bend Lt. (mile 244.8 AHP) downriver from Profit Island. Which of the following statements is TRUE?	<b>Profit Island Chute is closed to navigation.</b>	Tow length must not exceed 600 feet to use Profit Island Chute.	Tows must navigate toward left ascending bank when passing Profit Island Chute.	Profit Island Chute is open to navigation and is a shortcut for single barge tows.
1594	At 1218, on 16 March, you are passing the Vicksburg Gage (mile 437.0 AHP). What has been the average current since 0630, 15 March, if you have been making turns for 8.0 mph?	0.2 mph	0.5 mph	0.8 mph	<b>1.2 mph</b>
1595	Which of the following statements regarding buoys on the Mississippi River is TRUE?	The positions of river buoys can be found in the latest edition of Light List-Vol. V.	The buoys are maintained on station year round.	<b>Buoy positions on the chart are approximate.</b>	The buoys do not shift positions due to permanent moorings.
1596	What is the mile point of the Rosedale, MS Gage?	554.2 AHP	<b>592.2 AHP</b>	632.5 AHP	663.0 AHP
1597	The highest point on your towboat is 53 feet above the water, and the Helena Gage (mile 663 AHP) reads 3.9 feet. What is the vertical clearance when you pass under the B-span of the Helena Highway Bridge in Helena?	59.9 feet	<b>62.5 feet</b>	64.1 feet	65.5 feet
1598	You are passing the Memphis Gage at 0405, 18 March. If you are turning for 8 mph and estimate the current at 2.3 mph, what is your ETA at Cairo Point, IL (mile 954.5 AHP)?	0447, 19 Mar	1052, 19 Mar	1518, 19 Mar	<b>1839, 19 Mar</b>
1599	At what time would you listen to VHF Channel 22 (157.1 MHz) for information concerning the stage of the river between Memphis and Cairo?	<b>1300</b>	1435	1620	1815
1600	As you approach French Point Light (mile 915.4 AHP), you see 2 daymarks on the structure. What significance do the daymarks have?	They indicate the starboard side of the channel from seaward and mid-channel fairway.	<b>They indicate the starboard side of the channel from seaward and a channel crossing.</b>	They indicate the port side of the channel from seaward and a range marking.	They indicate the port side of the channel and a channel crossing.
1601	What is the distance from Cairo Point, IL, to Arkansas City?	28 miles	110 miles	218 miles	<b>400 miles</b>

1602	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  AT 1835, on 10 August, you are downbound on the Upper Mississippi River at St. Louis, MO (mile 184.0 UMR), with a mixed tow of 6 loaded, covered hopper barges, 2 loaded tank barges, and 2 empty hopper barges.				
1603	You have orders to drop off the empties at the fleeting area in Cairo and add five loaded barges to your tow. If you are turning for 8 mph and estimate the current at 0.5 mph, what is your ETA at Cairo?	1928, 11 Aug	<b>1614, 11 Aug</b>	1327, 11 Aug	2352, 10 Aug
1604	You complete changing out your tow and get underway enroute Memphis, Tennessee to deliver 2 tank barges. What is the distance you must travel from Cairo Point Light to the Lion Oil Refining Co. Docks in Memphis?	180.3 miles	<b>220.2 miles</b>	246.5 miles	734.3 miles
1605	As you approach Kate Aubrey Towhead Light (mile 789.5 AHP), your searchlight will show what type of marking at the light?	<b>Green diamond</b>	Red and green banded square	Green triangle	Green square
1606	The highest point on your towboat is 57 feet above the water, and the Memphis Gage reads +1.3 feet. What is the vertical clearance when you pass under the Memphis Highway Bridge in Memphis?	112.7 feet	55.7 feet	<b>54.6 feet</b>	51.8 feet
1607	At 0230 on 13 August, you are at mile 610.5 AHP when you see about a mile ahead lights on the water near the left bank. What might you see when you come abreast of these lights?	Privately maintained buoys at a yacht club	Government buoys marking the Hurricane Point dikes	<b>Barges moored at the Dennis Landing Terminal</b>	A pipeline discharging dredge spoil
1608	What is the mile point of the Rosedale Gage?	598 AHP	<b>592 AHP</b>	587 AHP	554 AHP
1609	Which of the following statements concerning the buoys on the Mississippi River is TRUE?	<b>Buoy locations may be changed to indicate the channel for the existing river stage.</b>	The buoys are maintained on station year round.	Buoys have permanent moorings on the river bottom and will not shift position.	The position of river buoys can be determined by consulting the latest Light List - Vol. V.
1610	At 1430 on 13 August, you pass Carolina Landing Light (mile 508.8 AHP). What has been the average current since 0230, 13 August if you have been making turns for 8.0 mph?	8.5 mph	5.7 mph	1.5 mph	<b>0.5 mph</b>
1611	You are approaching the Old River Control Structure (mile 314.5 AHP). The structure is in operation. Which of the following statements is TRUE?	The maximum speeds permitted when passing the channel are 10 mph downbound and 7.5 mph upbound.	Tows must be no more than 110 feet wide when passing the inflow channel.	<b>You should navigate as close to the left descending bank of the Mississippi River as safety permits.</b>	Tow length should not exceed 850 feet when passing the inflow channel.

1612	The latest available information on the channel conditions above Baton Rouge that includes recommended course and the latest buoy information is found in the _____.	<b>Local Notice to Mariners</b>	Waterways Journal	Sailing Directions	Corps. of Engineers maps
1613	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers On 25 March, you depart the Morganza, LA, Docks at mile 278.2 AHP with 12 barges enroute to St. Louis, MO (mile 175 UMR). Your engines are turning for 7.5 mph in still water.				
1614	What is the total length of the trip?	<b>850.6 miles</b>	894.8miles	922.5 miles	946.5 miles
1615	You estimate the current as 2.0 mph. What is the speed over the ground?	4.5 mph	<b>5.5 mph</b>	7.5 mph	9.5 mph
1616	You will pass the first gage at _____.	Profit Island	Bayou Sara	Baton Rouge	<b>Red River Landing</b>
1617	What is the mile point of the Natchez, MS Gage?	228.4 AHP	265.4 AHP	302.4 AHP	<b>363.3 AHP</b>
1618	As you pass Fort Adams (311.4 AHP) you observe a flashing amber light on the right descending bank ahead. This indicates that you should _____.	proceed with caution as there is construction work being done on the revetment	keep as close to the right descending bank as safety permits	<b>keep as close to the left descending bank as safety permits</b>	proceed with caution as the river is congested around the bend
1619	The highest point on your towboat is 57 feet above water. The Natchez Gage (mile 363.3 AHP) reads 16.7 feet. What is the vertical clearance when you pass under the Natchez - Vidalia (westbound) Hwy. Bridge?	<b>52.3 feet</b>	59.9 feet	61.0 feet	68.6 feet
1620	You pass under the Natchez bridge (mile 363.3 AHP) at 1300, on 27 March, and estimate the current to be 3.3 mph. What is your ETA at St. Louis if you continue to turn for 7.5 mph?	0617, 4 April	<b>0316, 4 April</b>	1153, 30 March	1253, 31 April
1621	As you approach Canon Point Light (mile 418.3 AHP), what daymark will you see on the light structure?	Green square	Green diamond	<b>Red diamond</b>	Red triangle
1622	Which light characteristics does Coggins Lt. (mile 429.5) have?	1 red flash every 4 seconds	<b>1 white flash every 4 seconds</b>	1white flash every 5 seconds	2 white flashes every 4 seconds
1623	As you approach mile 427.6 AHP, you see on the right side a white buoy with orange bands and open face diamond. This buoy shows _____.	safe water	preferred channel	<b>danger</b>	special marks
1624	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers On 16 October, you depart the Formosa Plastics mooring facility at mile 233.5 AHP with six loaded tankbarges enroute to the Apex Oil dock, St. Louis, MO (mile 180.9 UMR). Your engines are making turns for 6.5 mph in still water.				

1625	What is the total length of the trip?	910.6 miles	<b>901.2 miles</b>	900.3 miles	873.7 miles
1626	You estimate the current at 2.0 mph. What is the speed over the ground?	3.5 mph	<b>4.5 mph</b>	7.5 mph	9.5 mph
1627	What are the dimensions of the channel maintained at Baton Rouge, LA?	30 feet x 300 feet	40 feet x 300 feet	<b>45 feet x 500 feet</b>	30 feet x 500 feet
1628	You pass Springfield Bend Lt. (mile 244.8 AHP) at 1242, on 17 October, and estimate the current will average 2.5 mph for the remainder of your trip. What is your ETA at the mouth of the Ohio River if you are making turns for 10.5 mph?	1905, 19 October	0207, 21 October	<b>0519, 21 October</b>	0847, 21 October
1629	As you pass under the Natchez-Vidalia Dual Bridge, the gage on the bridge reads 3.6 feet. If the highest point on your vessel is 62 ft. above the water, what is your vertical clearance?	<b>60.4 feet</b>	63.6 feet	67.2 feet	122.0 feet
1630	What are the color and shape of Joseph Henry Daymark at mile 445.2 AHP?	Red - Triangle	Green - Square	Green - Triangle	<b>Red - Diamond</b>
1631	At 1227, on 19 October, you pass under the Greenville Highway Bridge (mile 531.3 AHP). What speed must you average to arrive at Jimmy Hawken Light (mile 663.5 AHP) at 1045 the following day?	5.2 mph	5.6 mph	<b>5.9 mph</b>	6.3 mph
1632	Which of the following statements regarding aids to navigation shown in the Corps. of Engineers map book is TRUE?	<b>Buoys should always be given as wide a berth in passing as possible.</b>	The U.S. Army Corps. of Engineers is responsible for placing and maintaining all aids to navigation.	Buoy positions as shown on the chart are exact.	Lights and daymarks are always shown in their exact location.
1633	The Delta-Friar Point revetment on the LMR extends from mile _____.	645.6 - 641.4 RDB	652.8 - 649.6 RDB	648.5 - 645.5 LDB	<b>657.3 - 652.2 LDB</b>
1634	What is the distance from Arkansas City, AR, to St. Louis, MO, on the Mississippi River System?	<b>584 miles</b>	617 miles	733 miles	832 miles
1635	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps ( Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers At 1145, on 24 August, you depart Memphis Harbor, McKellar Lake (mile 726.0 AHP) enroute to Baton Rouge, LA, with a tow of twelve empty gasoline barges.				
1636	You have received orders to proceed to the Amoco Pipeline Co. (mile 253.6 AHP) above Baton Rouge. If your vessel is making turns for 9 mph with an estimated average current of 1.5 mph, what is your ETA at the Amoco docks?	2044, 25 Aug	0214, 26 Aug	0745, 26 Aug	<b>0845, 26 Aug</b>

1637	The highest point on your towboat is 32 feet above the water, and the Helena Gage reads +6.6 feet. What is the vertical clearance when you pass under the A-span of the Helena Highway Bridge?	<b>80.8 feet</b>	73.1 feet	68.0 feet	56.1 feet
1638	You are in charge of a vessel that damages an aid to navigation established and maintained by the United States. Which statement is TRUE?	You must take the aid in tow and deliver it to the nearest Coast Guard, Marine Safety Office.	You must report the allision to the nearest Corps.. of Engineers Office.	<b>You must report the accident to the nearest Officer in Charge, Marine Inspection.</b>	You may wait until you reach your destination before reporting the allision to the U.S. Coast Guard.
1639	At 1727, on 24 August, you pass under the Helena Highway Bridge (mile 661.7 AHP). What has been the average speed of the current since departing Memphis Harbor, McKellar Lake, if you have been making turns for 9 mph?	1.8 mph	<b>2.3 mph</b>	2.8 mph	3.6 mph
1640	What is the distance in river miles, from the mouth of the Yazoo Diversion Canal to the RR and Hwy bridge at Baton Rouge, LA?	365 miles	310 miles	265 miles	<b>203 miles</b>
1641	The Crooked River empties into which river?	<b>Missouri</b>	Mississippi	Tennessee	Ohio
1642	As you pass under the Greenville Highway Bridge, you estimate the current as 3.5 mph. What is the speed over the ground, if your vessel is making turns for 9 mph?	14.5 mph	13.5 mph	<b>12.5 mph</b>	11.5 mph
1643	As you approach Walnut Point Light (mile 522.5 AHP), which type of daymark would you see on the light structure?	Red triangle	Green diamond	Green square	<b>Red diamond</b>
1644	Which light characteristics does Black Hawk Light (mile 318.3 AHP) have?	1 red flash every 4 seconds	1 green flash every 4 seconds	<b>1 white flash every 4 seconds</b>	2 white flashes every 5 seconds
1645	On what river is Ghent, Kentucky located?	Tennessee	Mississippi	Missouri	<b>Ohio</b>
1646	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers At 0519 on 23 May, you get underway from Baton Rouge, LA, (mile 231.8 AHP) bound for Louisville, KY, (mile 610.1 OR).				
1647	What is the length of the trip?	722.0 miles	953.8 miles	<b>1097.9 miles</b>	1332.1 miles
1648	After you get underway, what is the fourth river gage you will pass?	Head of Passes	<b>Natchez</b>	Bayou Sara	Red River Landing
1649	The Bayou Sara Gage reads 5.25 feet. The low water reference plane (LWRP) for Bayou Sara is 5.25 feet. Which statement is TRUE?	This gage reading is at a higher elevation than the same reading on the Gage at Head of Passes.	The depth over revetment at Old River is 25.2 ft.	The depth over Old River Lock sill is greater than 11 ft.	<b>River level is at the Low Water Reference plane</b>



1650	At 0715, on 24 May, you are abreast the St. Catherine Bar Lt. (mile 348.6 AHP). If you are turning for 8.0 mph, what has been the average current since you left Baton Rouge?	1.0 mph	1.4 mph	<b>3.8 mph</b>	4.4 mph
1651	The U. S. Coast Guard facility at mile 361 AHP is represented by which numbered white square on your map?	<b>8</b>	11	12	13
1652	You pass Hole in Wall Light at 1200, 24 May. What is your ETA off the Mhoon Landing Gage if you average 6.5 mph?	0152, 26 May	0426, 26 May	1128, 26 May	<b>1221, 26 May</b>
1653	What town is located at mile 395 AHP?	<b>St. Joseph</b>	Belmont	St. James	Rodney
1654	As you approach mile 425 AHP, you see a brown shaded area along the left descending bank. This represents _____.	weirs	<b>a revetment</b>	dikes	a fleeting area
1655	The Greenville Gage reads 1.6 feet. The high point of your towboat is 54 feet above water. What is the vertical clearance as you pass under the Greenville Highway Bridge?	<b>74.5 feet</b>	64.2 feet	55.5 feet	44.4 feet
1656	In addition to the Army Corps. of Engineers maps, data on bridge clearances may be found in the _____.	Army Corps. of Engineers Regulations	<b>Light List</b>	Waterways Journal	Channel Report
1657	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers On 3 January you get underway from Cambalick Dock, Morganza, LA, (mile 278.3 AHP) enroute to Portage, MO (UMR).				
1658	What is the length of the trip?	<b>887.9 miles</b>	878.9 miles	851.9 miles	726.0 miles
1659	What are the dimensions of the Old River Lock on the Lower Old River (mile 304 AHP)?	1175 x 75 feet	<b>1190 x 75 feet</b>	1195 x 84 feet	1202 x 84 feet
1660	At 2126, you pass Morganza Bend Light (mile 278.4 AHP). At 0226, 4 January, you pass Red River Landing Gage (mile 302.4 AHP). You have been turning for 7.5 mph. What is the current?	1.4 mph	1.8 mph	<b>2.7 mph</b>	6.2 mph
1661	The Gage at Red River Landing reads 43.4 feet. The low water reference plane (LWRP) for Red River Landing, LA. Is 10.6 ft. How many feet is this above the low water reference plane?	10.6 ft	11.6 ft	22.2 ft	<b>32.8 ft</b>
1662	The river will be temporarily closed to navigation at mile 531.3 AHP due to repairs to the bridge. This will occur at 1530, 5 January, and last for six hours. What minimum speed over the ground must you make from Red River Landing Gage in order not to be delayed?	<b>6.2 mph</b>	6.4 mph	6.8 mph	7.3 mph

1663	What type of daymark will you see as you approach Black Hills Light (mile 337.7 AHP)?	Private aid - no daymark	Red square	Red diamond	<b>Red triangle</b>
1664	What is the vertical clearance of the Natchez-Vidalia Highway Bridge when the Natchez-Vidalia Highway Bridge Gage reads 23.4 feet?	<b>102.6 ft</b>	108.3 ft	119.5 ft	125.6 ft
1665	The Natchez Gage reads 14.5 feet. The high point on your towboat is 47 feet above the water. What is the vertical clearance as you pass under the Natchez - Vidalia Highway Bridge?	58.0 feet	<b>64.5 feet</b>	72.5 feet	78.6 feet
1666	In order to determine what buoys, if any, are in place at Concordia Bar crossing (mile 596.0 AHP), what should you check?	Bulletin board at the Rosedale Gage	Waterways Journal	Light List	<b>Notice to Mariners</b>
1667	The area between Island 67 Upper Light (mile 623.1 AHP) and Sunflower Cut-off Foot Light (mile 624.8 AHP) is known as a _____.	transit	<b>crossing</b>	chute	slough
1668	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>On 11 September, you are making up your tow at the fleeting area in Cairo, IL (mile 980.6 Ohio River). You get underway at 0600 enroute to New Orleans with a mixed tow.</p>				
1669	You are turning for 7.8 mph and estimate the current at 1.0 mph. What is your speed over the ground?	6.8 mph	7.8 mph	<b>8.8 mph</b>	9.8 mph
1670	What is your ETA at the Fulton Gage?	1405, 12 Sept	1052, 12 Sept	0828, 12 Sept	<b>0204, 12 Sept</b>
1671	What daymark should you see as you approach French Point Light (mile 915.4 AHP)?	<b>Red triangle</b>	Green triangle	Red diamond	Green diamond
1672	You pass New Madrid, MO (mile 889.0 AHP) at 1412. What was your average speed since leaving Cairo?	<b>8.0 mph</b>	7.8 mph	7.6 mph	7.3 mph
1673	At 1412 you increase speed to make good 10.2 mph. At 1506 you have a daymark on your port beam. Which daymark is this?	Bessie Daymark	<b>Nolan Light</b>	Everetts Light	Marr Towhead Light
1674	The charts show a circle with two black quadrants located at mile 846.0 AHP. What does this indicate?	Hazardous chemical dock	<b>River Gage</b>	Betz-Tipton Veneers Terminal	Bulletin Board
1675	The Helena Gage reads 2.3 feet. The high point on your towboat is 26 feet above water. What is the vertical clearance when you pass under the Helena Highway Bridge?	76.0 feet	84.2 feet	89.5 feet	<b>90.7 feet</b>
1676	What company does NOT have a marine facility along the river bank in Helena (mile 658 to 665 AHP)?	Texas Eastern Pipeline Co.	Helena Port Terminal, Inc.	Arkansas Power & Light Co.	<b>Helena Grain Co.</b>
1677	If the Fair Landing, AR. Gage reads -1.2 feet, what is the water level in relation to the low water reference plane? The low water reference plane (LWRP) for Fair Landing, AR. is -0.9 feet.	2.1 foot above the plane	0.3 foot above the plane	<b>0.3 feet below the plane</b>	1.2 feet below the plane

1678	What are the light characteristics of the Bunge Corporation Terminal Lights (2) at mile 570.6 AHP?	a group flashing white light every five seconds	a flashing green light every 4 seconds	<b>a flashing green light every 6 seconds</b>	a flashing red light every 4 seconds
1679	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers On 22 September, you are making up your tow at the Fleeting area in Baton Rouge, LA near Gartness Light (mile 227.8 AHP). You get underway at 0842 enroute to Cairo, IL, with a mixed tow.				
1680	Your engine speed is 9.8 mph and you estimate the current at 1.6 mph. What is your speed over the ground?	11.0 mph	9.8 mph	8.6 mph	<b>8.2 mph</b>
1681	What is your ETA at the Helena Highway Bridge?	<b>1335, 24 Sept</b>	1109, 24 Sept	0926, 24 Sept	0458, 24 Sept
1682	Which daymark would you see as you approach Red Store Light (mile 269.5 AHP)?	<b>Green square</b>	Green triangle	Green diamond	Red square
1683	You pass Ratcliff Light (mile 289.8) at 1650. What was your average speed since leaving Baton Rouge?	7.3 mph	<b>7.6 mph</b>	8.0 mph	8.3 mph
1684	At 1650 you decrease speed to make good 7.1 mph. At 2020 you are _____.	<b>abeam of Old River Control Structure Light</b>	entering the Vicksburg District of the U.S. Army Corps. of Engineers	at Palmetto Point	at Latitude 31°10'N
1685	The charts show two dashed lines crossing the river just south of St. Catherine Bar Light. What does this indicate?	Overhead power lines	Louisiana-Mississippi ferry crossings	Two railroad trestles	<b>Two submerged oil pipelines</b>
1686	The Natchez Gage reads 16.3 feet. The high point on your towboat is 38 feet above water. What is the vertical clearance when you pass under the Natchez Highway Bridge?	79.0 feet	<b>71.7 feet</b>	65.2 feet	59.1 feet
1687	What organization has an installation at the uppermost end of Carthage Revetment?	City of Natchez (waterfront)	<b>River Cement Co.</b>	J.M. Jones Lumber	International Paper Co.
1688	If the Gage at the Greenville Highway Bridge reads 22.0 feet, and the low water reference plane (LWRP) for Greenville (Bridge). MS is 11.3 feet. What is the water level in relation to the low water reference plane?	22.1 feet below the LWRP	10.7 feet below the LWRP	<b>10.7 feet above the LWRP</b>	0.5 feet below the LWRP
1689	What does the circle with black and white quadrants across from Morgan Point Landing (769.0 miles AHP) represent?	<b>Gage reading</b>	Day Beacon	Light Tower	Speed zone

1690	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 1015, on 16 April, you are at the Amoco Pipeline Co. docks (253.6 AHP), when you get underway enroute to Institute, WV, with a tow of eight barges carrying molten sulphur.</p>				
1691	What is the distance from the Amoco Docks at Baton Rouge, LA, to the new mouth of the White River?	981.5 miles	953.5 miles	<b>345.3 miles</b>	700.2 miles
1692	You are turning for 10 mph and passing Hog Point ,LA. Angola reports that the current at Red River Landing is 4.5 mph. Which statement is TRUE?	The main channel lies on the north side of the island you see ahead.	You are making 14.5 mph over the ground.	You would expect to find the more favorable current near the broken red line in the river.	<b>You should expect to encounter vessels crossing the river at mile 300.5 AHP.</b>
1693	As you approach Shreves cut-off you see Red River Landing Gage (mile 302.4 AHP) which reads 4.2 feet. The Low Water Reference Plane (LWRP) is 10.6 feet. Which of the following statements is TRUE?	This reading is 6.4 feet above the Low Water Reference Plane.	A vessel drawing 8 ft would be able to pass over the sill at Old River Lock	<b>This reading is 6.4 feet below the Low Water Reference Plane.</b>	A vessel drawing 7 ft. would be able to pass through the locks at Lower Old River.
1694	You pass Red River Gage at 2015 on 16 April and estimate the current will average 3.0 mph for the remainder of the time on the Mississippi River. What is your ETA at the mouth of the Ohio River if you continue to turn for 10 mph?	<b>1718, 20 April</b>	1830, 20 April	0028, 21 April	0821, 21 April
1695	What is the vertical clearance between the highest point of your towboat, if it is 48 feet above the water, and if the Natchez Gage reads 20.1 feet when passing under the Natchez Upper Highway Bridge?	35.9 feet	43.2 feet	49.3 feet	<b>57.9 feet</b>
1696	In high water conditions, which publication would you consult for the latest information on buoys between Baton Rouge and Cairo?	U.S.C.G. Light List	<b>U.S.C.G. Local Notice to Mariners</b>	Army Corps. of Engineers Navigation Chart	List of Buoys and Daymarks
1697	As you approach Hole in the Wall Light (mile 373.4 AHP), what type of daymark would you see on the light structure?	<b>Green square</b>	Green diamond	Red diamond	Red square
1698	At 0300 on 19 April, you pass under the Greenville Bridge (mile 531.3 AHP). What was your average speed since departing Amoco Pipeline Co. Docks (mile 253.6 AHP)?	6.2 mph	5.2 mph	4.8 mph	<b>4.3 mph</b>
1699	A stretch where the channel changes from one side of the river to the other is called a _____.	bifurcation	transit	<b>crossing</b>	changeover
1700	What is the width of the navigable channel at Columbus Pt. Light (mile 936.0 AHP)?	200 ft.	<b>300 ft.</b>	450 ft.	750 ft.

1701	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, ILssouri to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  At 0815, on the 16 of April, you depart the Exxon Refinery Docks(mile 232 AHP) bound for the fleeting area at Sycamore Chute Light(740.3 AHP).				
1702	The horizontal clearance of the center span on the Baton Rouge RR and Highway 190 Bridge is _____.	443	500	<b>623</b>	748
1703	As you pass under the Baton Rouge RR and Highway 190 bridge you receive a call from another tow upriver. What channel on the VHF should you be monitoring?	1	<b>13</b>	16	67
1704	As you pass Solitude Lt. (mile 249.0 AHP) which dayboard would you see?	Green square	<b>Green diamond</b>	Red triangle	Red diamond
1705	Which of the following statements regarding buoys on the Mississippi River is TRUE?	<b>Buoys should be given as wide a berth as possible in passing.</b>	Buoy positions on the chart are exact.	The buoys are maintained on station year round.	The buoys do not shift positions due to permanent moorings.
1706	What is indicated by the two light gray shaded areas that cross the river above False River Lt. (mile 251.0 AHP)?	Ferry crossings	<b>Utility crossings</b>	Aerial cable crossings	Bridge construction
1707	What are the light characteristics of Greenwood Light (mile 288.6 AHP)?	Fixed red light	1 red flash every 4 seconds	<b>2 red flashes every 5 seconds</b>	2 white flashes every 4 seconds
1708	After passing Wilkinson Lt. (mile 310.0 AHP) you see a flashing amber light on the right descending bank ahead. The flashing light indicates that you should _____.	stay in the deepest water	slow down due to dredging operations	keep as close to the right descending bank as safety permits	<b>keep as close to the left descending bank as safety permits</b>
1709	At which of the following times would you be able to listen to lower Mississippi River conditions on VHF Channel 22?	0900 hours	1100 hours	<b>1300 hours</b>	1700 hours
1710	At 0645, on the 17th of April, you pass Hole in the Wall Lt. (mile 373.4 AHP). What has been your average speed since departing the Exxon Refinery?	5.8 mph	<b>6.3 mph</b>	6.7 mph	7.1 mph
1711	Your company wants to know at what time you will be arriving at the fleeting area at Sycamore Chute Light (mile 740.3 AHP) in Memphis, TN. You are making turns for 9.0 mph and you estimate the average current at 2.2 mph. Figuring the distance and time from Hole in the Wall Lt. (mile 373.4 AHP), what is your ETA at Sycamore Chute Lt.?	0557, April 19th	1045, April 19th	<b>1242, April 19th</b>	1733, April 19th

1712	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  On the 10th of May at 1130, you leave the fleeting area at Gartness Lt.(mile 227.8 AHP) bound for the Monsanto Terminal in St. Louis (mile 178.0 UMR). Your engines turn for 8.5 mph in still water.				
1713	What is the length of the trip?	405.8 miles	553.0 miles	<b>904.0 miles</b>	1136.8 miles
1714	You estimate the current as 2.5 mph. What is the speed over the ground?	5.5 mph	<b>6.0 mph</b>	8.0 mph	11.0 mph
1715	As you approach Casting Yard Dock Lt. (mile 265.4 AHP) you notice on the map a circle with 2 black sectors. This symbol indicates a _____.	lock	warning sign	mooring buoy	<b>river gage</b>
1716	From Baton Rouge to Cairo, what is the maintained minimum channel depth during low water?	6 feet	<b>9 feet</b>	12 feet	30 feet
1717	On which map would you find Redman Point, Arkansas?	<b>20</b>	23	29	37
1718	At 1000, on May 11th, you are passing George Prince Lt. (mile 364.1 AHP) in Natchez, Mississippi and must send an ETA to the Monsanto Terminal in St. Louis (mile 178.0 UMR). Your engines are still turning for 8.5 mph and you estimate the current at 2.5 mph. What will be your arrival time in St. Louis?	1919 on 15 May	2344 on 15 May	<b>1757 on 16 May</b>	2236 on 16 May
1719	As you approach Ashland Light (mile 378.1 AHP) which daymark would you see?	<b>Red triangle</b>	Red diamond	Green square	Green diamond
1720	What is your clearance as you pass under the Vicksburg Highway 80 Bridge (mile 437.8 AHP). if the Vicksburg Gage reads 14.8 feet and the highest point on your tow boat is 44.5 feet?	36 feet	42 feet	<b>57 feet</b>	66 feet
1721	After entering Milliken Bend (mile 455 AHP) you wish to locate the river service in Madison Parish, Louisiana. The river service is indicated by the square containing which number?	7	6	5	<b>4</b>
1722	At Filter Point Light (mile 475 AHP) there are 2 close straight dashed lines on the map. What do these lines represent?	Submerged oil pipelines	Submerged telephone cables	Submerged gas pipelines	<b>Aerial power cables</b>
1723	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  At 1315, on the 5 of October, you depart the Sycamore Chute fleeting area(mile 740.5 AHP) at Memphis, TN bound for Donaldsonville, LA.(mile 175.0 AHP)				

1724	You are turning for 8.2 mph and estimate the current at 1.5 mph. What is your speed over the ground?	9.7	8.2	7.8	6.7
1725	If the highest point on your towboat is 52 feet and the West Memphis Gage reads 26 feet what is the vertical clearance when you pass under the Hernando Desoto Bridge (mile 736.6 AHP)?	25.8 feet	30.7 feet	42.6 feet	56.7 feet
1726	Your vessel is making turns for 9.5 mph and you estimate the average current for the trip will be 2.5 mph. What will be your ETA Donaldsonville, LA?	1222 on 7 October	1823 on 7 October	0443 on 8 October	1033 on 8 October
1727	As you approach West Memphis Lt. (mile 727.4 AHP) you notice on the map a dashed line crossing the river. This line indicates a _____.	submerged oil pipeline	submerged gas pipeline	aerial tramway	aerial power line
1728	At 1609, on October 5, you are abeam of Star Landing Lt. (mile 707.2 AHP) . You calculate your speed since you departed Sycamore Chute fleeting area. If you are turning for 9.5 mph what was the current?	1.0 mph	1.5 mph	2.0 mph	2.5 mph
1729	What is the distance from the Arkansas River mouth to the Ohio River mouth in river miles?	594 miles	546 miles	422 miles	372 miles
1730	As you approach Joseph Henry Light (mile 445.2 AHP) which daymark would you see?	Red triangle	Red diamond	Green diamond	Green square
1731	On which river is Dover, KY located?	Mississippi	Tennessee	Ohio	Missouri
1732	After passing Oak Bend Lt. (mile 425.6 AHP) you see a light gray shaded area extending into the river shown on the map. This indicates a _____.	fleeting area	weir	dike	revetment
1733	Which numbered box indicates the ExxonMobil Refining & Supply Co. in Baton Rouge?	1	2	3	4
1734	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 0620 on 25 November, you depart Cape Girardeau fleeting area (mile 53.0 UMR) bound for the Gold Bond Building Products Wharf in New Orleans, LA, (mile 102.0 AHP).</p>				
1735	Your engines are turning for 8.2 mph. You estimate the current at 1.5 mph. What is your speed over the ground?	9.7 mph	8.8 mph	8.2 mph	6.7 mph
1736	What is the distance to Caruthersville Gage from Cape Girardeau?	54.4 miles	160.4 miles	793.4 miles	899.4 miles
1737	Which dayboard would you see on Puntney Light (mile 943.6 AHP)?	Green square	Green triangle	Red diamond	Red triangle
1738	What is the distance from the Memphis Gage to the Redneb Services Dock in New Orleans, LA.	460 miles	503 miles	588 miles	633 miles

1739	How long will it take you to go from the Memphis Gage to your destination in New Orleans, LA, if you estimate the average current on this segment of the route to be 2.0 mph and you increase the engine turns to 8.5 mph.	1 day 20 hours 33 minutes	2 days 6 hours 24 minutes	<b>2 days 12 hours 15 minutes</b>	3 days 4 hours 11 minutes
1740	What is the minimum maintained depth of the channel from Cairo to Baton Rouge during low water?	<b>9 feet</b>	12 feet	15 feet	18 feet
1741	You see a buoy with red and green bands. This buoy marks _____.	the center of the channel	<b>the preferred channel</b>	a channel crossing	an isolated danger
1742	As you approach Old River Control Structure Light you see a flashing amber light. You should _____.	<b>navigate as close to the left descending bank as safety permits</b>	navigate as close to the right descending bank as safety permits	turn into the inflow channel as the bypass is now open	slow your engine speed to not more than 5 mph
1743	What are the dimensions of the Old River Lock?	110 ft x 1190 ft	100 ft x 990 ft	75 ft x 1000 ft	<b>75 ft x 1190 ft</b>
1744	At 1710 on 27 November, you are abeam of Kings Point Lt. (mile 439.8 AHP). At this time you receive a message that there will no be space for you at the Redneb Services Dock until after 1200 on the 29 November. What speed over the ground will you have to slow to so as not to arrive before this time?	5.4 mph	6.1 mph	6.9 mph	<b>7.9 mph</b>
1745	The following questions (1-10) are based on the C of E Mississippi River Maps (Cairo, IL, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers You are making up your tow at the fleeting area at Cairo Point, Il(mile 980.8 Ohio River). At 0952, on 21 September, you get underway enroute to New Orleans with a mixed tow.				
1746	You are turning for 6.8 mph and estimate the current at 1.0 mph. What is your speed over the ground?	8.8 mph	8.2 mph	<b>7.8 mph</b>	6.8 mph
1747	How far is it to the Hernando Desoto Bridge in Memphis, TN?	980.8 miles	736.6 miles	<b>218.1 miles</b>	202.4 miles
1748	Which daymark should you see as you approach French Point Light (mile 915.4 AHP)?	<b>Red triangle</b>	Green square	Red diamond	Green diamond
1749	At 1923, on September 21, you pass Bixby Towhead Light (mile 873.7 AHP). What was your average speed since leaving Cairo?	12.1 mph	<b>11.3 mph</b>	10.5 mph	9.2 mph
1750	At 1923, you decrease speed to make good 9.2 mph. What is the first Gage you will pass after your speed change?	<b>Cottonwood Point</b>	New Madrid	Fulton	Tiptonville
1751	Which light will you be passing at 0059, on 22 September, if you make good 9.2 mph?	Kate Aubrey Lt.	<b>Obion Bar Lt.</b>	Trotter Lt.	Quaker Oats Lt.
1752	The Helena Gage reads 9.4 feet. The high point on your towboat is 42 feet above water. What is the vertical clearance when you pass under the Helena Highway Bridge?	53.0 feet	64.2 feet	<b>68.0 feet</b>	110.0 feet



1753	Which company does NOT have a marine facility along the river bank in Helena (mile 661 to 665 AHP)?	<b>Helena Grain, Inc.</b>	Helena Bridge Terminal, Inc.	Quincy Soybean Co.	Texas Eastern Pipeline Co.
1754	If the Bayou Sara Gage reads -0.5 feet, the Low Water Reference Plane is 5.25. What is the water level in relation to the low water reference plane?	0.5 foot below the plane	0.5 foot above the plane	5.25 feet above the plane	<b>5.75 feet below the plane</b>
1755	The Arkansas City Yellow Bend revetment on the LMR extends from mile _____.	<b>555.5-549.7 RDB</b>	549.0-548.5 RDB	556.9-554.9 LDB	548.5-546.5 LDB
1756	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 1215, on July 23, you get underway from The First Nitrogen Barge dock at mile 173.6 AHP enroute to Racine, OH(mile 241.6 OR).</p>				
1757	What is the length of the trip?	1195.4 miles	1223.1 miles	<b>1520.1 miles</b>	1657.8 miles
1758	After you get underway, what is the first river gage you will pass?	Head of Passes	<b>Donaldsonville</b>	Baton Rouge	Red River Landing
1759	You are passing the Bayou Sara Gage which reads 3.9 feet. The low water reference plane (LWRP) at Bayou Sara is 5.25 feet. Which of the following statements is TRUE?	The river level is above the Low Water Reference Plane.	Red Store Landing Revetment is ahead on your starboard side	This gage reading is at a lower elevation than the same reading on the Gage at Head of Passes.	<b>None of the above.</b>
1760	At 0921, on 24 July, you are abreast the St. Catherine Bar Lt. (mile 348.6 AHP). If you are turning for 10.0 mph, what was the current since departure?	1.4 mph	<b>1.7 mph</b>	2.0 mph	7.0 mph
1761	Which daymark will you see as you approach Natchez Beam Lt. (mile 364.8 AHP)?	Red diamond	White square	Green square	<b>Red triangle</b>
1762	At 1132, 24 July, you pass Natchez Beam Lt. (mile 364.8 AHP). What is your ETA off the Memphis Gage if you average 8.0 mph?	2345, 25 July	0525, 26 July	<b>0947, 26 July</b>	2215, 26 July
1763	Which town is located at mile 663.5 AHP?	<b>Helena</b>	Friers Point	St. Francis	Rodney
1764	What is the brown colored tint shown at Bordeaux Point Dykes (mile 681.0 AHP)?	river gage	fish hatchery	levee	<b>dredge material</b>
1765	The Memphis Gage reads 18.4 feet. The high point of your towboat is 48 feet above water. What is the vertical clearance as you pass under the Memphis Highway Bridge?	<b>46.4 feet</b>	53.8 feet	66.4 feet	75.4 feet
1766	The Linwood Bend revetment on the LMR extends from mile _____.	828.1-823.1 RDB	831.7-829.4 RDB	<b>841.3-838.7 LDB</b>	845.4-842.5 LDB

1767	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  At 1914, on 21 June, you depart the Alton Barge Docks at Alton, IL (Mile 202.0 UMR), with a mixed tow of 6 loaded covered hopper barges, 2 loaded tank barges, and 2 empty hopper barges.				
1768	You have orders to drop off the empties at the fleeting area at Cairo Point and add five loaded tank barges to your tow. If you are turning for 9 mph and estimate the current at 1.5 mph, what is your ETA at Cairo?	1031, 22 June	<b>1423, 22 June</b>	1741, 22 June	2210, 22 June
1769	You complete changing out your tow and get underway enroute Ark City Tank Storage (mile 554.0 AHP) to deliver the tank barges. What is the distance you must travel from Cairo Point Light?	606.8 miles	554.0 miles	<b>399.8 miles</b>	202.1 miles
1770	As you approach Dean Island Light (mile 754.8 AHP), which type of daymark will be observed at the light?	Green triangle	Red and green banded square	Green square daymark	<b>Diamond-shaped green daymark</b>
1771	The highest point on your towboat is 48 feet above the water, and the Memphis Gage reads +7.5 feet. What is the vertical clearance when you pass under the Hernando Desoto Bridge in Memphis?	48.0 feet	<b>53.2 feet</b>	68.2 feet	116.0 feet
1772	What is the mile point of the Fulton Gage?	<b>778 AHP</b>	687 AHP	632 AHP	598 AHP
1773	At 2350 hours on 23 June, you are at mile 610.5 AHP when you see about a mile ahead white lights on the water near the left bank. What might you see when you come abreast of these lights?	Privately maintained buoys at a yacht club	Government buoys marking the Hurricane Point dikes	<b>Barges moored at the Dennis Landing Terminal</b>	A pipeline discharging dredge spoil
1774	Which of the following statements concerning the buoys on the Mississippi River is TRUE?	The position of river buoys can be determined by consulting the latest Light List - Vol. V.	A preferred channel mark is a lateral mark indicating a channel junction which must always be passed to starboard.	<b>Setting a buoy is the act of placing a buoy on assigned position in the water.</b>	None of the above.
1775	At 1032 on 24 June, you pass Carolina Landing Light(508.8 AHP). What has been the average current since 2350, 23 June, if you have been making turns for 9.0 mph?	<b>0.5 mph</b>	1.5 mph	5.7 mph	8.5 mph
1776	Where can scheduled broadcast times of river stages be found?	Sailing Directions	<b>Light List</b>	List of Lights	Coast Pilot
1777	Which company does NOT have a marine facility in Rosedale harbor (mile 585 AHP)?	Sanders Elevator Corp	Rosedale-Boliver County Port Commission	<b>T.L. James</b>	Cives Steel Company

1778	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  September, you depart the Formosa Plastics mooring facility at mile 233.5 AHP with six loaded tank barges enroute to the Alton Barge Terminal, Alton, IL (mile 202.0 UMR). Your engines are making turns for 7.5 mph in still water.				On 9
1779	What is the total length of the trip?	<b>922.3 miles</b>	985.3 miles	1155.8 miles	1187.3 miles
1780	You estimate the current at 2.0 mph. What is the speed over the ground?	3.5 mph	4.5 mph	<b>5.5 mph</b>	9.5 mph
1781	What are the dimensions of the Port Allen Lock at Baton Rouge, LA?	75 feet x 1188 feet	<b>84 feet x 1188 feet</b>	84 feet x 1180 feet	75 feet x 1180 feet
1782	At 0119, on 10 September, you pass Springfield Bend Lt. (mile 244.8 AHP) and estimate the current will average 2.5 mph for the remainder of your trip. What is your ETA at the mouth of the Ohio River if you are making turns for 8.5 mph?	1746, 12 September	1244, 13 September	1244, 14 September	<b>2329, 14 September</b>
1783	As you pass under the Natchez-Vidalia Dual Bridge, the gage on the bridge reads 8.9 ft. If the highest point on your vessel is 54 ft. above the water, what is your vertical clearance?	60.0 feet	<b>63.1 feet</b>	67.2 feet	122.0 feet
1784	Which type of daymark would you see on the Belle Island Corner Lt. at mile 458.6 AHP?	Green - Diamond	Green - Square	Red - Triangle	<b>Red - Diamond</b>
1785	At 1814, on 11 September, you pass under the Greenville Highway Bridge (mile 531.3 AHP). What speed must you average to arrive at Jimmy Hawken Light (mile 663.5 AHP) at 0930 the following day?	9.7 mph	<b>8.7 mph</b>	6.3 mph	5.6 mph
1786	What company does NOT have a marine facility along the river bank in Madison Parish (mile 457.0 AHP)?	Complex Chemical Co.	Delta Southern Railroads	<b>Baxter Wilson Steam</b>	Farm Chemical
1787	The Vaucluse Trench fill revetment on the LMR extends from mile _____.	<b>535.6 - 532.9 RDB</b>	535.9 - 534.3 RDB	535.9 - 534.3 LDB	534.3 - 532.6 LDB
1788	What is the distance from Cairo, IL, to Parkersburg, WV?	<b>795 miles</b>	733 miles	597 miles	537 miles
1789	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL,MO, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  At 1515, on 23 May, you get underway from the Amoco Pipeline Co. docks(253.6 AHP), enroute to Pittsburgh, PA, with a tow of six barges carrying asphalt.				
1790	What is the distance from the Amoco Docks at Baton Rouge, LA, to Pittsburgh, PA?	727.9 miles	981.5 miles	1575.3 miles	<b>1681.7 miles</b>

1791	You are turning for 10 mph and passing Hog Point, LA. (mile 297.5 AHP). Angola reports that the current at Red River Landing is 4.5 mph. Which statement is TRUE?	The main channel lies on the south side of the island you see ahead.	You are making 14.5 mph over the ground.	<b>An underwater stone dike has been constructed 0.5 miles upstream of Miles Bar Towhead.</b>	You would expect to find the more favorable current near the broken red line in the river.
1792	Which facility is located on the right descending bank at mile 363.6 AHP?	River Cement Corps..	<b>Vidalia Dock and Storage Co.</b>	T.L. James	Bunge Corps..
1793	At 1118, on 24 May, you pass Natchez Gage and estimate the current will average 3.0 mph for the remainder of the time on the Mississippi River. What is your ETA at Cairo, IL if you continue to turn for 10 mph?	0840, 26 May	2218, 26 May	2218, 27 May	<b>2339, 27 May</b>
1794	If the highest point of your towboat is 54 feet above the water and the Natchez Gage reads 24.8 feet, what will be your vertical clearance when passing under the Natchez-Vidalia westbound Highway Bridge?	35.9 feet	43.2 feet	<b>47.2 feet</b>	57.5 feet
1795	In high water conditions, which publication would you consult for the latest information on buoys between Baton Rouge and Cairo?	List of Buoys and Daymarks	U.S.C.G. Light List	Army Corps. of Engineers Navigation Map	<b>None of the above</b>
1796	As you approach Giles Bend Cut-off Light (mile 367.7 AHP), what type of daymark would you see on the light structure?	Green square	Green diamond	<b>Red triangle</b>	Red diamond
1797	At 1554, on 25 May, you pass Huntington Point Light (mile 555.2 AHP). What was your average speed since departing Amoco Pipeline Co. Docks (mile 253.6 AHP)?	<b>6.2 mph</b>	5.2 mph	4.8 mph	4.3 mph
1798	The solid lines extending into the channel at mile 948 AHP are _____.	revetments	<b>dikes</b>	spoil areas	Westvaco Service Facilities
1799	What is the width of the widest span of the Cairo Highway Bridge (Upper Mississippi River mile 1.3)?	503 feet	625 feet	<b>675 feet</b>	800 feet
1800	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>On 3 January you get underway from Hall-Buck Coke Terminal Dock, Baton Rouge, LA, (mile 233.0 AHP) enroute to the Mobile Oil Docks (east side),(mile 176.4 UMR), in St. Louis.</p>				
1801	What is the length of the trip?	720.8 miles	777.4 miles	<b>897.2 miles</b>	906.3 miles
1802	What are the dimensions of the Old River Lock on the Lower Old River (mile 304 AHP)?	<b>1190 X 75 feet</b>	1185 X 84 feet	1190 X 84 feet	1185 X 75 feet
1803	At 2142, on January 3, you pass Sebastapol Light (mile 283.3 AHP). At 0137, January 4, you pass Fort Adams Light(311.4 AHP). You have been turning for 9.0 mph. What was the current?	4.2 mph	3.3 mph	2.7 mph	<b>1.8 mph</b>

1804	At 0850, 4 January, you pass the Gage at Natchez, MS which reads 26.8 feet. The low water reference plane (LWRP) for Natchez is 6.1 feet. What is the water level in relation to the low water reference plane?	<b>20.7 ft above</b>	20.7 ft below	32.9 ft above	32.9 ft below
1805	At 1300, 5 January, the river will be temporarily closed to navigation for six hours at mile 531.3 AHP due to repairs to a bridge. What minimum speed over the ground must you make from Natchez Gage in order not to be delayed?	5.7 mph	<b>6.0 mph</b>	6.8 mph	7.3 mph
1806	Which type of daymark will you see as you approach Old Levee Light (mile 385.2 AHP)?	Green diamond	Red square	<b>Green square</b>	Private aid - no daymark
1807	What is the vertical clearance of the Vicksburg Highway 80 Bridge when the river level is the same as the Low Water Reference Plane?	128.3 ft	125.6 ft	119.5 ft	<b>116.3 ft</b>
1808	The Vicksburg Gage reads 31.9 feet. The high point on your towboat is 43 feet above the water. What is the vertical clearance as you pass under the Vicksburg Highway 80 Bridge?	36.2 feet	<b>41.4 feet</b>	58.0 feet	84.3 feet
1809	Where would you find out which buoys, if any, are in place at Concordia Bar crossing (mile 596.0 AHP)?	<b>Local Notice to Mariners</b>	Bulletin board at the Rosedale Gage	Waterways Journal	None of the above
1810	What are the dotted lines crossing at mile 529.7 AHP?	<b>submarine cables</b>	power cables	gated dams	workboat crossings
1811	The following questions (1-10) are based on the C of E Mississippi River Maps (Cairo, IL, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers You are making up your tow at the fleeting area at Cairo Point, IL (mile 980.8 Ohio River). At 0952, on 21 September, you get underway enroute to New Orleans with a mixed tow.				
1812	You are turning for 6.8 mph and estimate the current at 1.0 mph. What is your speed over the ground?	6.8 mph	<b>7.8 mph</b>	8.8 mph	9.4 mph
1813	How far is it to the Hernando Desoto Bridge in Memphis, TN?	980.8 miles	736.6 miles	312.3 miles	<b>218.1 miles</b>
1814	Which daymark should you see as you approach French Point Light (mile 915.4 AHP)?	Red diamond	Green square	<b>Red triangle</b>	Green diamond
1815	At 1923, on September 21, you pass Bixby Towhead Light (mile 873.7 AHP). What was your average speed since leaving Cairo?	9.2 mph	8.8 mph	<b>8.5 mph</b>	7.2 mph
1816	At 1923, you increase speed to make good 9.2 mph. What is the first Gage you will pass after your speed change?	Cottonwood Point	<b>Caruthersville</b>	Fulton	New Madrid
1817	Which light will you be passing at 0059, on 22 September, if you make good 9.2 knots?	<b>Obion Bar Lt.</b>	Kate Aubrey Lt.	Trotter Lt.	Quaker Oats Lt.

1818	The Helena Gage reads 9.4 feet. The high point on your towboat is 42 feet above water. What is the vertical clearance when you pass under the Helena Highway Bridge?	53.0 feet	62.6 feet	64.2 feet	<b>68.0 feet</b>
1819	What company does NOT have a marine facility along the river bank in Helena (mile 661 to 665 AHP)?	Helena Port Terminal, Inc.	<b>Riceland Food Corps..</b>	Quincy Soybean Co.	Texas Eastern Pipeline Co.
1820	The low water reference plane (LWRP) for Bayou Sara is 5.25 feet. If the Bayou Sara Gage reads -0.5 feet, what is the water level in relation to the low water reference plane?	4.75 feet above the plane	5.75 feet above the plane	<b>5.75 feet below the plane</b>	4.75 feet below the plane
1821	The Arkansas City Yellow Bend revetment on the LMR extends from mile _____.	<b>555.0-549.7 RDB</b>	549.0-548.5 RDB	556.9-554.9 LDB	548.5-546.5 LDB
1822	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 1215, on May 23, you get underway from The First Nitrogen Barge dock at mile 173.6 AHP enroute to Racine, OH(mile 241.6 OR).</p>				
1823	What is the length of the trip?	1195.4 miles	1223.1 miles	1464.8 miles	<b>1520.1 miles</b>
1824	After you get underway, what is the first river gage you will pass?	<b>Donaldsonville</b>	Head of Passes	Baton Rouge	Red River Landing
1825	You are passing the Bayou Sara Gage which reads 3.9 feet. The low water reference plane for Bayo Sara is 5.25 feet. Which of the following statements is TRUE?	The river level is above the Low Water Reference Plane.	Red Store Landing Revetment is ahead on your starboard side	This gage reading is at a lower elevation than the same reading on the Gage at Head of Passes.	<b>None of the above.</b>
1826	At 0921, on 24 May, you are abreast the St. Catherine Bar Lt. (mile 348.6 AHP). If you are turning for 10.0 mph, what was the current since departure?	3.4 mph	2.0 mph	<b>1.7 mph</b>	1.4 mph
1827	Which daymark will you see as you approach Natchez Beam Lt. (mile 364.8 AHP)?	<b>Red triangle</b>	White square	Green square	Red diamond
1828	At 1132, 24 May, you pass Natchez Beam Lt. (mile 364.8 AHP). What is your ETA off the Memphis Gage if you average 8.0 mph?	2345, 25 May	<b>0947, 26 May</b>	1525, 26 May	2215, 26 May
1829	Which town is located at mile 663.5 AHP?	Friers Point	<b>Helena</b>	St. Francis	Rodney
1830	What is the brown colored tint shown at Bordeaux Point Dykes (mile 681.0 AHP)?	river gage	fish hatchery	<b>dredge material</b>	levee
1831	The Memphis Gage reads 18.4 feet. The high point of your towboat is 48 feet above water. What is the vertical clearance as you pass under the Memphis Highway Bridge?	75.4 feet	66.4 feet	53.8 feet	<b>46.4 feet</b>
1832	The Linwood Bend revetment on the LMR extends from mile _____.	828.1-823.1 RDB	831.7-829.4 RDB	845.4-842.5 LDB	<b>841.3-838.7 LDB</b>

<b>1833</b>	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  At 1914, on 21 June, you depart the Alton Barge Docks at Alton, IL (Mile 202.0 UMR), with a mixed tow of 6 loaded covered hopper barges, 2 loaded tank barges, and 2 empty hopper barges.				
<b>1834</b>	You have orders to drop off the empties at the fleeting area at Cairo Point and add five loaded tank barges to your tow. If you are turning for 9 mph and estimate the current at 1.5 mph, what is your ETA at Cairo?	2210, 22 June	1741, 22 June	<b>1423, 22 June</b>	1031, 22 June
<b>1835</b>	You complete changing out your tow and get underway enroute Ark City Tank Storage (mile 554.0 AHP) to deliver the tank barges. What is the distance you must travel from Cairo Point Light?	202.1 miles	<b>400.7 miles</b>	554.2 miles	605.8 miles
<b>1836</b>	As you approach Dean Island Light (mile 754.8 AHP), which type of daymark will be observed at the light?	Green triangle	<b>Green diamond</b>	Green square	Red-and-green banded square
<b>1837</b>	The highest point on your towboat is 48 feet above the water, and the Memphis Gage reads +7.5 feet. What is the vertical clearance when you pass under the Hernando Desoto Bridge in Memphis?	<b>53.2 feet</b>	58.1 feet	68.2 feet	96.3 feet
<b>1838</b>	What is the mile point of the Fulton Gage?	598 AHP	632 AHP	687 AHP	<b>778 AHP</b>
<b>1839</b>	At 2350 on 23 June, you are at mile 610.5 AHP when you see about a mile ahead lights on the water near the left bank. What might you see when you come abreast of these lights?	Privately maintained buoys at a yacht club	Government buoys marking the Hurricane Point dikes	<b>Barges moored at the Dennis Landing Terminal</b>	A pipeline discharging dredge spoil
<b>1840</b>	Which of the following statements concerning the buoys on the Mississippi River is TRUE?	The position of river buoys can be determined by consulting the latest Light List - Vol. V.	A preferred channel mark is a lateral mark indicating a channel junction which must always be passed to starboard.	Buoys should be passed as close as possible.	<b>Setting a buoy is the act of placing a buoy on assigned position in the water.</b>
<b>1841</b>	At 1032 on 24 June, you pass Carolina Landing Light (mile 508.8 AHP). What has been the average current since 2350, 23 June, if you have been making turns for 9.0 mph?	8.5 mph	5.7 mph	1.5 mph	<b>0.5 mph</b>
<b>1842</b>	Where can scheduled broadcast times of river stages be found?	Sailing Directions	List of Lights	<b>Light List</b>	Coast Pilot
<b>1843</b>	Which company does NOT have a marine facility in Rosedale harbor (mile 585 AHP)?	<b>T.L. James</b>	Rosedale-Boliver County Port Commission	Cives Steel Company	Sanders Elevator Corp

<b>1844</b>	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers				
	On 9 September, you depart the Formosa Plastics mooring facility at mile 233.5 AHP with six loaded tank barges enroute to the Alton Barge Terminal, Alton, IL (mile 202.0 UMR). Your engines are making turns for 7.5 mph in still water.				
<b>1845</b>	What is the total length of the trip?	906.3 miles	<b>922.3 miles</b>	1155.8 miles	1187.3 miles
<b>1846</b>	You estimate the current at 2.0 mph. What is the speed over the ground?	9.5 mph	<b>5.5 mph</b>	5.0 mph	4.5 mph
<b>1847</b>	What are the dimensions of the Port Allen Lock at Baton Rouge, LA?	75 feet x 1188 feet	84 feet x 1180feet	<b>84 feet x 1188 feet</b>	75 feet x 1180 feet
<b>1848</b>	At 0119, on 10 September, you pass Springfield Bend Lt. (mile 244.8 AHP) and estimate the current will average 2.5 mph for the remainder of your trip. What is your ETA at the mouth of the Ohio River if you are making turns for 8.5 mph?	1746, 12 September	1244, 13 September	<b>2329, 14 September</b>	0210, 15 September
<b>1849</b>	As you pass under the Natchez-Vidalia Dual Bridge, the gage on the bridge reads 8.9 ft. If the highest point on your vessel is 54 ft. above the water, what is your vertical clearance?	<b>63.1 feet</b>	65.3 feet	67.2 feet	122.0 feet
<b>1850</b>	Which type of daymark would you see on the Belle Island Corner Lt. at mile 458.6 AHP?	Green - Diamond	Green - Square	<b>Red - Diamond</b>	Red - Triangle
<b>1851</b>	At 1814, on 11 September, you pass under the Greenville Highway Bridge (mile 531.3 AHP). What speed must you average to arrive at Jimmy Hawken Light (mile 663.5 AHP) at 0930 the following day?	<b>8.7 mph</b>	7.7 mph	6.3 mph	5.6 mph
<b>1852</b>	Which company does NOT have a marine facility along the river bank in Madison Parish (mile 457.0 AHP)?	Complex Chemical Co.	Delta Southern Railroads	Farm Chemical	<b>Baxter Wilson</b>
<b>1853</b>	The Vaucluse Trench fill revetment on the LMR extends from mile _____.	524.3 - 522.6 RDB	<b>535.6 - 532.9 RDB</b>	535.9 - 534.3 LDB	534.3 - 532.6 LDB
<b>1854</b>	What is the distance from Greenville, MS, to Tiptonville, TN on the Mississippi River System?	95 miles	136 miles	<b>341 miles</b>	520 miles
<b>1855</b>	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL,MO, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers				
	At 1515, on 23 May, you get underway from the Amoco Pipeline Co. docks (253.6 AHP), enroute to Pittsburgh, PA, with a tow of six barges carrying asphalt.				
<b>1856</b>	What is the distance from the Amoco Docks at Baton Rouge, LA, to Pittsburgh, PA?	<b>1681.7 miles</b>	1575.3 miles	981.7 miles	727.9 miles



1857	You are turning for 10 mph and passing Hog Point, LA. (mile 297.5 AHP). Angola reports that the current at Red River Landing is 4.5 mph. Which statement is TRUE?	The main channel lies on the south side of the island you see ahead.	You are making 14.5 mph over the ground.	<b>An underwater stone dike has been constructed 0.5 miles upstream of Miles Bar Towhead.</b>	You would expect to find the more favorable current near the broken red line in the river.
1858	Which facility is located on the right descending bank at mile 363.6 AHP?	River Cement Corps..	Bunge Corps..	T.L. James	<b>Vidalia Dock and Storage Co.</b>
1859	At 1118, on 24 May, you pass Natchez Gage and estimate the current will average 3.0 mph for the remainder of the time on the Mississippi River. What is your ETA at Cairo, IL if you continue to turn for 10 mph?	0840, 26 May	2218, 26 May	<b>2339, 27 May</b>	0339, 28 May
1860	If the highest point of your towboat is 54 feet above the water and the Natchez Gage reads 24.8 feet, what will be your vertical clearance when passing under the Natchez-Vidalia westbound Highway Bridge?	35.9 feet	<b>47.2 feet</b>	49.6 feet	57.5 feet
1861	In high water conditions, which publication would you consult for the latest information on buoys between Baton Rouge and Cairo?	List of Buoys and Daymarks	U.S.C.G. Light List	Army Corps. of Engineers Navigation Chart	<b>None of the above</b>
1862	As you approach Ashland Light (mile 378.1 AHP), which type of daymark would you see on the light structure?	Green square	Green diamond	Red diamond	<b>Red triangle</b>
1863	At 1554, on 25 May, you pass Huntington Point Light (mile 555.2 AHP). What was your average speed since departing Amoco Pipeline Co. Docks (253.6 AHP)?	6.9 mph	<b>6.2 mph</b>	4.8 mph	4.3 mph
1864	The solid lines extending into the channel at mile 948 AHP are _____.	<b>dikes</b>	revetments	spoil areas	Westvaco Service Facilities
1865	What is the width of the widest span of the Cairo Highway Bridge (Upper Mississippi River mile 1.3)?	800 feet	<b>675 feet</b>	625 feet	503 feet
1866	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL,MO, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 2345, on 25 December, you depart Vulcan Chemicals, Memphis Harbor, McKellar Lake (mile 726.0 AHP - LMR) enroute to the Petroleum Fuel &amp; Terminal Co. (144.6 AHP) in Angelina, LA, with a tow of eight full gasoline barges.</p>				
1867	If your vessel is making turns for 7.5 mph with an estimated average current of 1.5 mph, what is your ETA at the dock in Angelina, LA?	<b>1621, 28 Dec</b>	2203, 28 Dec	0516, 29 Dec	1621, 29 Dec
1868	The highest point on your towboat is 67 feet above the water, and the Helena Gage reads +22.3 feet. What is the vertical clearance when you pass under the A-span of the Helena Highway Bridge?	74.7 feet	52.4 feet	49.8 feet	<b>30.1 feet</b>

1869	Which of the following statements are TRUE?	Oil well structures are listed in the Light List.	All aids to navigation with lights have lateral significance.	<b>On the Western Rivers, crossing marks may exhibit white lights.</b>	None of the above.
1870	At 0509, on 26 December, you pass under the Helena Highway Bridge (mile 661.7 AHP). What has been the average speed of the current since departing Memphis Harbor, McKellar Lake, if you have been making turns for 7.5 mph?	5.6 mph	<b>4.4 mph</b>	2.1 mph	1.8 mph
1871	What is the distance in river miles, from the new mouth of the White River to the Petroleum Fuel & Terminal Co. (mile 144.6 AHP)?	<b>454 miles</b>	427 miles	384 miles	370 miles
1872	What is the white/black within a circle symbol found at mile 592.1 AHP?	Terrence Landing Light	Daymark	<b>River Gage</b>	Information Board
1873	What facility is not found near La Grange Towhead Light (538.2 AHP) on Greenville Harbour?	Mississippi Limestone	Ergon, Inc.	American Commercial Barge Lines	<b>Greenville Casino Wharf</b>
1874	As you pass under the Vicksburg Bridges, you estimate the current as 3.0 mph. What is the speed over the ground, if your vessel is making turns for 10.5 mph?	16.5 mph	<b>13.5 mph</b>	10.5 mph	7.5 mph
1875	As you approach Buckridge Light (mile 412.5 AHP), which type of daymark would you see on the light structure?	Red diamond	Red triangle	<b>Green square</b>	Green diamond
1876	What is NOT true about the yellow square at mile 227.3 AHP?	Yellow in color	Square in shape	<b>Lighted</b>	Part of Intracoastal Waterway System
1877	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, ILssouri to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 0815, on the 16 of April, you depart the Exxon Refinery Docks(mile 232 AHP) bound for the fleeting area at Sycamore Chute Light(740.3 AHP).</p>				
1878	The horizontal clearance of the center span on the Baton Rouge RR and Highway 190 Bridge is _____.	443	500	575	<b>623</b>
1879	You are at mile 230.0 AHP and see on the map a large rectangle outlined with a broken line . This indicates a _____.	revetment	dredge material	<b>fleeting area</b>	dike
1880	As you pass Solitude Lt. (mile 249.0 AHP) which dayboard would you see?	<b>Green diamond</b>	Green square	Red triangle	Red diamond
1881	Which of the following statements regarding buoys on the Mississippi River is TRUE?	Buoy positions on the chart are exact.	<b>Buoys should be given as wide a berth as possible in passing.</b>	The buoys are maintained on station year round.	The buoys do not shift positions due to permanent moorings.

1882	What is indicated by the two light gray shaded areas that cross the river above False River Lt. (mile 251.0 AHP)?	<b>Utility crossings</b>	Ferry crossings	Aerial cable crossings	Bridge construction
1883	What are the light characteristics of Greenwood Light (mile 288.6 AHP)?	Fixed red light	<b>2 red flashes every 5 seconds</b>	1 red flash every 4 seconds	2 white flashes every 4 seconds
1884	After passing Wilkinson Lt. you see a flashing amber light on the right descending bank ahead. The flashing light indicates that you should _____.	stay in the deepest water	slow down due to dredging operations	<b>keep as close to the left descending bank as safety permits</b>	keep as close to the right descending bank as safety permits
1885	At which of the following times would you be able to listen to lower Mississippi River conditions on VHF Channel 22?	0900 hours	1100 hours	1200 hours	<b>1300 hours</b>
1886	At 0645, on the 17th of April, you pass Hole in the Wall Lt. (mile 373.4 AHP). What has been your average speed since departing the Exxon Refinery?	8.8 mph	7.3 mph	6.8 mph	<b>6.3 mph</b>
1887	Your company wants to know at what time you will be arriving at the fleeting area at Sycamore Chute Light (mile 740.3 AHP) in Memphis, TN You are making turns for 9.0 mph and you estimate the average current at 2.2 mph. Figuring the distance and time from Hole in the Wall Lt. (mile 373.4 AHP), what is your ETA at Sycamore Chute Lt.?	<b>1242, April 19th</b>	1645, April 19th	2242, April 19th	2333, April 19th
1888	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, ILssouri to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>On the 10th of May at 1130, you leave the fleeting area at Gartness Lt.(mile 227.8 AHP) bound for the Monsanto Terminal in St. Louis (mile 178.0 UMR). Your engines turn for 8.5 mph in still water.</p>				
1889	What is the length of the trip?	405.8 miles	<b>904.0 miles</b>	1002.0 miles	1136.8 miles
1890	You estimate the current as 2.5 mph. What is the speed over the ground?	11.0 mph	8.0 mph	<b>6.0 mph</b>	5.5 mph
1891	As you approach Casting Yard Dock Lt. (mile 265.4 AHP) you notice on the map a circle with 2 black sectors. This symbol indicates a _____.	lock	warning sign	<b>river gage</b>	mooring buoy
1892	From Baton Rouge to Cairo, the channel project depth is twelve (12) feet. What is the maintained depth of the channel?	<b>9 feet</b>	6 feet	15 feet	40 feet
1893	On which map would you find Redman Point, Arkansas?	<b>20</b>	38	45	60

1894	At 1000, on May 11th, you are passing George Prince Lt. (mile 364.1 AHP) in Natchez, Mississippi and must send an ETA to the Monsanto Terminal in St. Louis (mile 178.0 UMR). Your engines are still turning for 8.5 mph and you estimate the current at 2.5 mph. What will be your arrival time in St. Louis?	1919 on 15 May	2344 on 15 May	1113 on 16 May	<b>1757 on 16 May</b>
1895	As you approach Ashland Light (mile 378.1 AHP) which daymark would you see?	<b>Red triangle</b>	Red diamond	Green square	Green diamond
1896	What is your clearance as you pass under the Vicksburg Highway 80 Bridge (mile 437.8 AHP). if the Vicksburg Gage reads 14.8 feet and the highest point on your tow boat is 44.5 feet?	36 feet	42 feet	48 feet	<b>57 feet</b>
1897	After entering Milliken Bend (mile 455 AHP) you wish to locate the river service in Madison Parish, Louisiana. The river service is indicated by the square containing which number?	<b>4</b>	5	3	2
1898	At Filter Point Light (mile 475 AHP) there are 2 close straight dashed lines on the map passing through the black dots. What do these lines represent?	Submerged oil pipelines	Submerged gas pipelines	Submerged telephone cables	<b>Aerial power cables</b>
1899	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>On 3 January you get underway from Hall-Buck Coke Terminal Dock, Baton Rouge, LA, (mile 233.0 AHP) enroute to the Mobile Oil Docks (east side),(mile 176.4 UMR), in St. Louis.</p>				
1900	What is the length of the trip?	720.8 miles	777.4 miles	<b>897.2 miles</b>	906.3 miles
1901	What are the dimensions of the Old River Lock on the Lower Old River (mile 304 AHP)?	<b>1190 X 75 feet</b>	1185 X 84 feet	1190 X 84 feet	1185 X 75 feet
1902	At 2142, on January 3, you pass Sebastapol Light (mile 283.3 AHP). At 0137, January 4, you pass Fort Adams Light (mile 311.4 AHP). You have been turning for 9.0 mph. What was the current?	4.2 mph	3.3 mph	2.7 mph	<b>1.8 mph</b>
1903	At 0850, 4 January, you pass the Gage at Natchez, MS which reads 26.8 feet. The low water reference plane (LWRP) for Natchez is 6.1 feet. What is the water level in relation to the low water reference plane?	20.7 ft below	<b>20.7 ft above</b>	32.9 ft below	32.9 ft above
1904	At 1300, 5 January, the river will be temporarily closed to navigation for six hours at mile 531.3 AHP due to repairs to a bridge. What minimum speed over the ground must you make from Natchez Gage in order not to be delayed?	5.7 mph	<b>6.0 mph</b>	6.8 mph	7.3 mph
1905	Which type of daymark will you see as you approach Old Levee Light (mile 385.2 AHP)?	Green diamond	Red square	<b>Green square</b>	Private aid - no daymark

1906	What is the vertical clearance of the Vicksburg Highway 80 Bridge when the river level is the same as the Low Water Reference Plane? The low water reference plane (LWRP) for Vicksburg, MS. is 0.1.	128.3 ft	125.6 ft	119.5 ft	<b>116.1 ft</b>
1907	The Vicksburg Gage reads 31.9 feet. The high point on your towboat is 43 feet above the water. What is the vertical clearance as you pass under the Vicksburg Highway 80 Bridge?	36.2 feet	<b>41.4 feet</b>	58.0 feet	84.3 feet
1908	Where would you find out which buoys, if any, are in place at Concordia Bar crossing (mile 596.0 AHP)?	<b>Notice to Mariners</b>	Bulletin board at the Rosedale Gage	Waterways Journal	None of the above
1909	Which company utility crossing is at mile 529.7 AHP?	<b>Texas Gas Transmission Corp. submerged gas pipeline</b>	Tennessee Gas Co. submerged gas pipeline	ANR Pipeline Co. submerged gas pipeline	Trunkline Gas Co. submerged gas pipeline
1910	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, ILssouri to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 1400, 12 January, you are down bound on the Upper Mississippi River at St. Louis, MO(mile 181.0 UMR) bound for the River Cement Co. in Natchez, MS.</p>				
1911	When you pass under the Jefferson Barracks Highway Bridge (mile 168.6 UMR) what will be your vertical clearance if the highest point on your towboat is 55 feet and the St Louis Gage reads 21 feet?	<b>11.8 feet</b>	14.6 feet	19.7 feet	25.8 feet
1912	You are on map #4. What is the mile point of the facility known as Gulf Coast Grain Co.?	mile 920 AHP	mile 921 AHP	mile 922 AHP	<b>mile 923 AHP</b>
1913	Which light characteristics does Foster Light have?	1 green flash every 4 seconds	1 red flash every 4 seconds	<b>2 white flashes every 5 seconds</b>	2 red flashes every 5 seconds
1914	At 2100, January 12, you are passing Cherokee Landing Lt. (mile 112.5 UMR). What has been your speed over the ground since leaving St. Louis, MO (mile 181 UMR).	10.4 mph	<b>9.8 mph</b>	9.2 mph	8.8 mph
1915	You are turning for 7.5 mph and estimate the current at 3.0 mph. What is your ETA at the River Cement Co. in Natchez considering that you passed Cherokee Landing Lt. at 2100?	<b>1605 on 15 January</b>	0355 on 16 January	1244 on 16 January	1922 on 16 January
1916	You are passing Putney Lt. (mile 943.6 AHP). The gray shaded areas alongside the river represent _____.	levees	weirs	dikes	<b>revetments</b>
1917	At 1030, 13 January, you are passing Columbus Point Lt. (mile 936.1 AHP). What has been your average speed since leaving St. Louis (mile 181 UMR) on the 12th of January at 1400 hours?	10.4 mph	<b>9.7 mph</b>	9.4 mph	9.1 mph

1918	What is the mile point of Hickman, KY Gage?	846.4 AHP	889.0 AHP	<b>922.0 AHP</b>	937.2 AHP
1919	Which daymark would you see at Shields Bar Lt. (mile 882.2 AHP)?	Red triangle	Green triangle	<b>Red diamond</b>	Green square
1920	You are passing Eastwood Lt. (mile 849.3 AHP) and the map indicates that Bunge Grain facility would be located at the square with number _____.	4	6	8	<b>10</b>
1921	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL,MO, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 0825 on 08 March, you get underway from the River Cement Co. (173.0 AHP), enroute The Slay Warehousing docks(179.0 UMR) in St. Louis, MO, with a tow of eight barges carrying cement.</p>				
1922	What is the distance from the River Cement Co. Dock to the mouth of the Ohio River?	718.8 miles	<b>780.8 miles</b>	953.5 miles	981.5 miles
1923	As you pass under the Baton Rouge R.R. and Hwy 190 Bridge C233.9 AHP), you find that the Kinder Morgan Bulk Terminals are indicated by which numbered box?	<b>10</b>	9	8	7
1924	You are turning for 9 mph, approaching Fort Adams Lt. (mile 311.4 AHP) and it is reported that the current at Knox Landing is estimated at 4.5 MPH. Which of the following statements is TRUE?	<b>Tows and other vessels should navigate as close to the left descending bank as safety will permit.</b>	The inflow channel is a navigable channel for any vessel.	You are making 13.5 mph over the ground.	Old River Control Structure Light and Fort Adams Light may be used as range lights when entering the outflow channel.
1925	At 0715, on March 9, you pass Knox Landing Gage C313.8 AHP) and estimate the current will average 3.5 mph for the remainder of the time on the Mississippi River. What is your ETA at the mouth of the Ohio River if you increase speed to turn for 10 mph?	0640, 11 March	0554, 12 March	<b>0943, 13 March</b>	1242, 13 March
1926	What is the vertical clearance between the highest point of your towboat, if it is 45 feet above the water, and if the Natchez Gage reads 23.4 feet when passing under the Natchez-Vidalia Westbound Highway Bridge?	67.5 feet	<b>57.1 feet</b>	52.2 feet	45.2 feet
1927	In high water conditions, which publication would you consult for the latest information on buoys between Baton Rouge and Cairo?	List of Buoys and Daymarks	Coast Pilot	Army Corps. of Engineers Navigation Chart	<b>U.S.C.G. Local Notice to Mariners</b>
1928	As you approach Buckridge Light (mile 412.5 AHP), which type of daymark would you see on the light structure?	Red square	Green square	Red diamond	<b>Green diamond</b>
1929	At 1019, on 10 March, you pass under the Greenville Bridge (mile 531.3 AHP). What was your average speed since departing River Cement Co. Dock?	<b>7.2 mph</b>	6.8 mph	6.5 mph	6.2 mph

1930	As you approach mile 659 AHP, you notice on the map a dashed line crossing the river at mile 659.9 AHP. This line indicates _____.	ferry crossing	submarine crossing	<b>power lines</b>	gas pipelines
1931	On which river is New Providence, TN located?	Allegheny	Upper Mississippi	Ohio	<b>Cumberland</b>
1932	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, ILssouri to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 0815, on the 16 of April, you depart the Exxon Refinery Docks(mile 232 AHP) bound for the fleeting area at Sycamore Chute Light(740.3 AHP).</p>				
1933	The horizontal clearance of the center span on the Baton Rouge RR and Highway 190 Bridge is _____.	443	500	<b>623</b>	748
1934	Which light characteristics does Ben Burman Lt. (mile 235.0 AHP) have?	1 red flash every 5 seconds	2 white flashes every 5 seconds	2 green flashes every 5 seconds	<b>2 red flashes every 5 seconds</b>
1935	As you pass Solitude Lt. (mile 249.0 AHP) which dayboard would you see?	Green square	<b>Green diamond</b>	Red triangle	Red diamond
1936	Which of the following statements regarding buoys on the Mississippi River is TRUE?	<b>Buoys should be given as wide a berth as possible in passing.</b>	Buoy positions on the chart are exact.	The buoys are maintained on station year round.	The buoys do not shift positions due to permanent moorings.
1937	What is indicated by the two light gray shaded areas that cross the river above False River Lt. (mile 251.0 AHP)?	Ferry crossings	<b>Utility crossings</b>	Aerial cable crossings	Bridge construction
1938	What are the light characteristics of Greenwood Light (mile 288.6 AHP).	Fixed red light	1 red flash every 4 seconds	<b>2 red flashes every 5 seconds</b>	2 white flashes every 4 seconds
1939	After passing Wilkinson Lt. (mile 310.0 AHP) you see a flashing amber light on the right descending bank ahead. The flashing light indicates that you should _____.	stay in the deepest water	slow down due to dredging operations	keep as close to the right descending bank as safety permits	<b>keep as close to the left descending bank as safety permits</b>
1940	At which of the following times would you be able to listen to lower Mississippi River conditions on VHF Channel 22?	0900 hours	1100 hours	<b>1300 hours</b>	1600 hours
1941	At 0645, on the 17th of April, you pass Hole in the Wall Lt. (mile 373.4 AHP). What has been your average speed since departing the Exxon Refinery?	5.8 mph	<b>6.3 mph</b>	6.7 mph	7.1 mph

1942	Your company wants to know at what time you will be arriving at the fleeting area at Sycamore Chute Light (mile 740.3 AHP) in Memphis, TN You are making turns for 9.0 mph and you estimate the average current at 2.2 mph. Figuring the distance and time from Hole in the Wall Lt. (mile 373.4 AHP), what is your ETA at Sycamore Chute Lt.?	0557, April 19th	1045, April 19th	<b>1242, April 19th</b>	1733, April 19th
1943	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL,MO, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 1515, on 23 May, you get underway fromt the Amoco Pipeline Co. docks(253.6 AHP), enroute to Pittsburgh, PA, with a tow of six barges carrying asphalt.</p>				
1944	What is the distance from the Amoco Docks at Baton Rouge, LA, to Pittsburgh, PA?	<b>1681 miles</b>	1575 miles	981 miles	727 miles
1945	You are turning for 10 mph and passing Hog Point, LA. (mile 297.5 AHP). Angola reports that the current at Red River Landing is 4.5 mph. Which statement is TRUE?	The main channel lies on the south side of the island you see ahead.	You are making 14.5 mph over the ground.	<b>An underwater stone dike has been constructed 0.5 miles upstream of Miles Bar Towhead.</b>	You would expect to find the more favorable current near the broken red line in the river.
1946	Which facility is located on the right descending bank at mile 363.6 AHP?	River Cement Corps..	Bunge Corps..	T.L. James	<b>Vidalia Dock and Storage Co.</b>
1947	At 1118, on 24 May, you pass Natchez Gage and estimate the current will average 3.0 mph for the remainder of the time on the Mississippi River. What is your ETA at Cairo, IL if you continue to turn for 10 mph?	0840, 26 May	2218, 26 May	<b>2339, 27 May</b>	0339, 28 May
1948	If the highest point of your towboat is 54 feet above the water and the Natchez Gage reads 24.8 feet, what will be your vertical clearance when passing under the Natchez-Vidalia westbound Highway Bridge?	35.9 feet	<b>47.2 feet</b>	49.6 feet	57.5 feet
1949	In high water conditions, which publication would you consult for the latest information on buoys between Baton Rouge and Cairo?	List of Buoys and Daymarks	U.S.C.G. Light List	Army Corps. of Engineers Navigation Chart	<b>None of the above</b>
1950	As you approach Ashland Light (mile 378.1 AHP), which type of daymark would you see on the light structure?	Green square	Green triangle	Red diamond	<b>Red triangle</b>
1951	At 1554, on 25 May, you pass Huntington Point Light (mile 555.2 AHP). What was your average speed since departing Amoco Pipeline Co. Docks (253.6 AHP)?	6.9 mph	<b>6.2 mph</b>	4.8 mph	4.3 mph
1952	The solid lines extending into the channel at mile 948 AHP are _____.	<b>dikes</b>	revetments	spoil areas	Meadwestvaco pipeline
1953	What is the width of the widest span of the Cairo Highway Bridge (Upper Mississippi River mile 1.3)?	800 feet	<b>675 feet</b>	625 feet	503 feet



1954	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  At 1707, on 23 May, you get underway from mile 234.2 AHP enroute to Louisville, KY (mile 612.6 OR).				
1955	What is the length of the trip?	<b>1088.5 miles</b>	1332.2 miles	1334.6 miles	1566.4 miles
1956	After you get underway, what is the first river gage you will pass?	Head of Passes	Baton Rouge	<b>Bayou Sara</b>	Red River Landing
1957	The Red River Landing Gage reads 5.2 feet. The low water reference plane (LWRP) for Red River is 10.6 feet. Which of the following statements is TRUE?	<b>River level is below the Low Water Reference Plane.</b>	The depth over revetment at Old River is 25.2 ft.	The depth over Old River Lock sill is greater than 11 ft.	This gage reading is at a higher elevation than the same reading on the Gage at Head of Passes.
1958	At 0922, on 24 May, you are abreast the St. Catherine Bar Lt. (mile 348.6 AHP). If you are turning for 8.0 mph, what is the current?	<b>1.0 mph</b>	1.4 mph	2.0 mph	7.0 mph
1959	What daymark will you see as you approach Warnicott Bar Lt. (mile 351.3 AHP)?	Red diamond	Red triangle	<b>Green square</b>	White square
1960	You pass Warnicott Bar Lt. at 1146, 24 May. What is your ETA off the Mhoon Landing Gage if you average 6.5 mph?	0152, 26 May	0426, 26 May	<b>1528, 26 May</b>	0909, 27 May
1961	What town is located at mile 389.8 AHP?	Whitehall	Belmont	St. James	<b>Rodney</b>
1962	The circle with black and white quadrants located at mile 435.6 AHP is a _____.	Daymark	Electrical Tower	<b>River Gage</b>	Information Board
1963	The Greenville Gage reads 10.6 feet. The high point of your towboat is 54 feet above water. What is the vertical clearance as you pass under the Greenville Highway Bridge?	44.4 feet	54.2 feet	<b>65.4 feet</b>	75.4 feet
1964	The locations of locks and dams can be found in the _____.	Army Corps. of Engineers maps	<b>Light List</b>	Local Notice to Mariners	Channel Report
1965	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, ILssouri to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers  On the 10th of May at 1130, you leave the fleeting area at Gartness Lt.(mile 227.8 AHP) bound for the Monsanto Terminal in St. Louis (mile 178.0 UMR). Your engines turn for 8.5 mph in still water.				
1966	What is the length of the trip?	405.8 miles	<b>904.0 miles</b>	1002.0 miles	1136.8 miles
1967	You estimate the current as 2.5 mph. What is the speed over the ground?	11.0 mph	8.0 mph	<b>6.0 mph</b>	5.5 mph

1968	As you approach Casting Yard Dock Lt. (mile 265.4 AHP) you notice on the map a circle with 2 black sectors. This symbol indicates a _____.	lock	warning sign	river gage	mooring buoy
1969	From Baton Rouge to Cairo, what is the maintained minimum channel depth during low water?	9 feet	12 feet	15 feet	30 feet
1970	On which map would you find Redman Point, Arkansas?	23	20	17	5
1971	At 1000, on May 11th, you are passing George Prince Lt. (mile 364.1 AHP) in Natchez, Mississippi and must send an ETA to the Monsanto Terminal in St. Louis (mile 178.0 UMR). Your engines are still turning for 8.5 mph and you estimate the current at 2.5 mph. What will be your arrival time in St. Louis?	1919 on 15 May	2344 on 15 May	1113 on 16 May	1757 on 16 May
1972	As you approach Ashland Light (mile 378.1 AHP) which daymark would you see?	Red triangle	Red diamond	Green square	Green diamond
1973	What is your clearance as you pass under the Vicksburg Highway 80 Bridge (mile 437.8 AHP). if the Vicksburg Gage reads 14.8 feet and the highest point on your tow boat is 44.5 feet?	36 feet	42 feet	48 feet	57 feet
1974	After entering Milliken Bend (mile 455 AHP) you wish to locate the river service in Madison Parish, Louisiana. The river service is indicated by the square containing which number?	5	4	3	2
1975	At Filter Point Light (mile 475 AHP) there are 3 close straight dashed lines on the map passing through the black dot below the number 475. What do these lines represent?	Oil pipelines	Submerged gas pipelines	Power Cables	Submerged fiber optic cable
1976	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 1914, on 21 June, you depart the Alton Barge Docks at Alton, IL (Mile 202.0 UMR), with a mixed tow of 6 loaded covered hopper barges, 2 loaded tank barges, and 2 empty hopper barges.</p>				
1977	You have orders to drop off the empties at the fleeting area at Cairo Point and add five loaded tank barges to your tow. If you are turning for 9 mph and estimate the current at 1.5 mph, what is your ETA at Cairo?	2210, 22 June	1741, 22 June	1423, 22 June	1031, 22 June
1978	You complete changing out your tow and get underway enroute Ark City Tank Storage (mile 554.0 AHP) to deliver the tank barges. What is the distance you must travel from Cairo Point Light?	202.1 miles	400.7 miles	554.2 miles	605.8 miles
1979	As you approach Dean Island Light (mile 754.8 AHP), which type of daymark will be observed at the light?	Green triangle	Green diamond	Green square	Red-and-green banded square

1980	The highest point on your towboat is 48 feet above the water, and the Memphis Gage reads +7.5 feet. What is the vertical clearance when you pass under the Hernando Desoto Bridge in Memphis?	53.2 feet	58.1 feet	68.2 feet	96.3 feet
1981	What is the mile point of the Fulton Gage?	598 AHP	632 AHP	687 AHP	778 AHP
1982	At 2350 on 23 June, you are at mile 610.5 AHP when you see about a mile ahead lights on the water near the left bank. What might you see when you come abreast of these lights?	Privately maintained buoys at a yacht club	Government buoys marking the Hurricane Point dikes	Barges moored at the Dennis Landing Terminal	A pipeline discharging dredge spoil
1983	Which of the following statements concerning the buoys on the Mississippi River is TRUE?	The position of river buoys can be determined by consulting the latest Light List - Vol. V.	A preferred channel mark is a lateral mark indicating a channel junction which must always be passed to starboard.	Buoys should be passed as close as possible.	Setting a buoy is the act of placing a buoy on assigned position in the water.
1984	At 1032 on 24 June, you pass Carolina Landing Light(508.8 AHP). What has been the average current since 2350, 23 June, if you have been making turns for 9.0 mph?	8.5 mph	5.7 mph	1.5 mph	0.5 mph
1985	Where can scheduled broadcast times of river stages be found?	Sailing Directions	List of Lights	Light List	Coast Pilot
1986	Which company does NOT have a marine facility in Rosedale Harbor (mile 585 AHP)?	T.L. James	Rosedale-Boliver County Port Commission	Cives Steel Company	Sanders Elevator Corp
1987	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers At 1745, on 25 August, you depart Memphis Harbor, McKellar Lake (mile 726.0 AHP - LMR) enroute to Baton Rouge, LA, with a tow of twelve empty gasoline barges.				
1988	You have received orders to proceed to the Amoco Pipeline Co. (mile 253.6 AHP) above Baton Rouge. If your vessel is making turns for 9 mph with an estimated average current of 1.5 mph, what is your ETA at the Amoco docks?	1444, 27 Aug	2214, 27 Aug	0844, 28 Aug	1454, 28 Aug
1989	The highest point on your towboat is 52 feet above the water, and the Helena Gage reads +9.6 feet. What will be the vertical clearance when you pass under the A-span of the Helena Highway Bridge?	49.8 feet	53.9 feet	57.8 feet	73.1 feet

1990	You are in charge of a vessel that damages an aid to navigation established and maintained by the United States. Which statement is TRUE?	You must take the aid in tow and deliver it to the nearest Coast Guard, Marine Safety Office.	You must report the allision to the nearest Army Corps.. of Engineers Office.	You may wait until you reach your destination before reporting the allision to the U.S. Coast Guard.	<b>You must report the accident to the nearest Officer in Charge, Marine Inspection.</b>
1991	At 2342, on 25 August, you pass under the Helena Highway Bridge (mile 661.7 AHP). What has been the average speed of the current since departing Memphis Harbor, McKellar Lake, if you have been making turns for 9 mph?	<b>1.8 mph</b>	2.1 mph	4.4 mph	5.6 mph
1992	What is the distance in river miles, from the new mouth of the White River to the RR and Hwy bridge at Baton Rouge, LA?	338 miles	<b>365 miles</b>	400 miles	454 miles
1993	The Clinch River empties into which river?	Arkansas	Mississippi	Ohio	<b>Tennessee</b>
1994	As you pass under the Greenville Highway Bridge, you estimate the current as 4.5 mph. What is the speed over the ground, if your vessel is making turns for 9 mph?	9.5 mph	<b>13.5 mph</b>	14.5 mph	16.5 mph
1995	As you approach Vaucluse Bend Light (mile 533.8 AHP), which type of daymark would you see on the light structure?	Red diamond	Red triangle	<b>Green square</b>	Green diamond
1996	You are downbound when you observe on your Mississippi River map a circle with black and white quadrants on the left bank. This indicates a _____.	<b>river gage</b>	daymark	control tower	information board
1997	What are the dimensions of Old River Lock, on the Lower Mississippi River?	1202 feet x 84 feet	<b>1190 feet x 75 feet</b>	760 feet x 75 feet	425 feet x 75 feet
1998	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>On 9 September, you depart the Formosa Plastics mooring facility at mile 233.5 AHP with six loaded tank barges enroute to the Alton Barge Terminal, Alton, IL (mile 202.0 UMR). Your engines are making turns for 7.5 mph in still water.</p>				
1999	What is the total length of the trip?	906.3 miles	<b>922.3 miles</b>	1155.8 miles	1187.3 miles
2000	You estimate the current at 2.0 mph. What is the speed over the ground?	9.5 mph	<b>5.5 mph</b>	5.0 mph	4.5 mph
2001	What are the dimensions of the Port Allen Lock at Baton Rouge, LA?	75 feet x 1188 feet	84 feet x 1180feet	<b>84 feet x 1188 feet</b>	75 feet x 1180 feet

2002	At 0119, on 10 September, you pass Springfield Bend Lt. (mile 244.8 AHP) and estimate the current will average 2.5 mph for the remainder of your trip. What is your ETA at the mouth of the Ohio River if you are making turns for 8.5 mph?	1746, 12 September	1244, 13 September	<b>2329, 14 September</b>	0210, 15 September
2003	As you pass under the Natchez-Vidalia Dual Bridge, the gage on the bridge reads 8.9 ft. If the highest point on your vessel is 54 ft. above the water, what is your vertical clearance?	<b>63.1 feet</b>	65.3 feet	67.2 feet	122.0 feet
2004	Which type of daymark would you see on the Belle Island Corner Lt. at mile 458.6 AHP?	Green diamond	Green square	<b>Red diamond</b>	Red triangle
2005	At 1814, on 11 September, you pass under the Greenville Highway Bridge (mile 531.3 AHP). What speed must you average to arrive at Jimmy Hawken Light (mile 663.5 AHP) at 0930 the following day?	<b>8.7 mph</b>	7.7 mph	6.3 mph	5.6 mph
2006	Which company does NOT have a marine facility along the river bank in Madison Parish (mile 457.0 AHP)?	Complex Chemical Co.	Delta Southern Railroads	Mid-Delta Helena, LLC	<b>Baxter Wilson</b>
2007	The Vaucluse Trench fill revetment on the LMR extends from mile _____.	524.3 - 522.6 RDB	<b>535.6 - 532.9 RDB</b>	535.9 - 534.3 LDB	534.3 - 532.6 LDB
2008	What is the distance from Baton Rouge, LA, to Hickman, KY, on the Mississippi River System?	117 miles	433 miles	656 miles	<b>692 miles</b>
2009	<p>The following questions (1-10) are based on the C of E Mississippi River Maps (Cairo, IL, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers.</p> <p>At 0952, on 21 September, you get underway enroute to New Orleans with a mixed tow. You are making up your tow at the fleeting area at Cairo Point, IL (mile 980.8 Ohio River).</p>				
2010	You are turning for 6.8 mph and estimate the current at 1.0 mph. What is your speed over the ground?	6.8 mph	<b>7.8 mph</b>	8.8 mph	9.4 mph
2011	How far is it to the Hernando Desoto Bridge in Memphis, TN?	980.8 miles	736.6 miles	312.3 miles	<b>218.1 miles</b>
2012	Which daymark should you see as you approach French Point Light (mile 915.4 AHP)?	Green diamond	Green square	<b>Red triangle</b>	Red diamond
2013	At 1923, on September 21, you pass Bixby Towhead Light (mile 873.7 AHP). What was your average speed since leaving Cairo?	9.2 mph	8.8 mph	<b>8.5 mph</b>	7.2 mph
2014	At 1923, you increase speed to make good 9.2 mph. What is the first gage you will pass after your speed change?	Cottonwood Point	<b>Caruthersville</b>	Fulton	New Madrid
2015	Which light will you be passing at 0059, on 22 September, if you make good 9.2 knots?	<b>Obion Bar Lt.</b>	Kate Aubrey Lt.	Trotter Lt.	Quaker Oats Lt.

2016	The Helena Gage reads 9.4 feet. The high point on your towboat is 42 feet above water. What is the vertical clearance when you pass under the Helena Highway Bridge?	53.0 feet	62.6 feet	64.2 feet	<b>68.0 feet</b>
2017	What company does NOT have a marine facility along the river bank in Helena (mile 661 to 665 AHP)?	Helena Port Terminal, Inc.	<b>Riceland Food Corps..</b>	Quincy Soybean Co.	Texas Eastern Pipeline Co.
2018	The low water reference plane (LWRP) for Bayou Sara is 5.25 feet. If the Bayou Sara Gage reads -0.5 feet, what is the water level in relation to the low water reference plane?	4.75 feet above the plane	5.75 feet above the plane	<b>5.75 feet below the plane</b>	4.75 feet below the plane
2019	The Arkansas City Yellow Bend revetment on the LMR extends from mile _____.	<b>555.0-549.7 RDB</b>	549.0-548.5 RDB	556.9-554.9 LDB	548.5-546.5 LDB
2020	The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers On 22 September, you are making up your tow at the Fleeting area in Baton Rouge, LA near Gartness Light (mile 227.8 AHP). You get underway at 0842 enroute to Cairo, IL, with a mixed tow.				
2021	Your engine speed is 9.8 mph and you estimate the current at 1.6 mph. What is your speed over the ground?	11.0 mph	9.8 mph	8.6 mph	<b>8.2 mph</b>
2022	What is your ETA at the Helena Highway Bridge?	<b>1335, 24 Sept</b>	1109, 24 Sept	0926, 24 Sept	0458, 24 Sept
2023	Which daymark would you see as you approach Red Store Light (mile 269.5 AHP)?	<b>Green square</b>	Green triangle	Green diamond	Red square
2024	You pass Ratcliff Light (mile 289.8) at 1650. What was your average speed since leaving Baton Rouge?	7.3 mph	<b>7.6 mph</b>	8.0 mph	8.3 mph
2025	At 1650 you decrease speed to make good 7.1 mph. At 2020 you are _____.	<b>abeam of Old River Control Structure Light</b>	entering the Vicksburg District of the U.S. Army Corps. of Engineers	at Palmetto Point	at Latitude 31°10'N
2026	The charts show two dashed lines crossing the river just south of St. Catherine Bar Light. What does this indicate?	Overhead power lines	Louisiana-Mississippi ferry crossings	Two railroad trestles	<b>Two submerged oil pipelines</b>
2027	The Natchez Gage reads 16.3 feet. The high point on your towboat is 38 feet above water. What is the vertical clearance when you pass under the Natchez Highway Bridge?	79.0 feet	<b>71.7 feet</b>	65.2 feet	59.1 feet
2028	What organization has an installation at the uppermost end of Carthage Revetment?	U.S. Coast Guard	<b>River Cement Co.</b>	U.S. Army Corps. of Engineers	International Paper Co.
2029	The low water reference plane for Greenville Highway Bridge is 11.3 feet. If the Gage at the Greenville Highway Bridge reads 22.0 feet, what is the water level in relation to the low water reference plane (LWRP)?	22.1 feet below the LWRP	10.7 feet below the LWRP	<b>10.7 feet above the LWRP</b>	0.5 feet below the LWRP

2030	Controlling depth of a channel _____.	<b>is the least depth within the limits of the channel</b>	is the greatest depth within the limits of the channel	permits the safe use of the channel to drafts of more than that depth	is the designed dredging depth of a channel constructed by the U.S. Army Corps. of Engineers
2031	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>On 16 October, you depart the Formosa Plastics mooring facility at mile 233.5 AHP with six loaded tank barges enroute to the Agrico Chemical dock, Herculaneum, MO (mile 153.4 UMR). Your engines are making turns for 6.5 mph in still water.</p>				
2032	What is the total length of the trip?	910.6 miles	901.4 miles	900.7 miles	<b>873.7 miles</b>
2033	You estimate the current at 3.0 mph. What is the speed over the ground?	<b>3.5 mph</b>	4.5 mph	7.5 mph	9.5 mph
2034	What are the dimensions of the channel maintained from Baton Rouge to New Orleans, LA?	30 feet x 300 feet	40 feet x 300 feet	30 feet x 500 feet	<b>45 feet x 500 feet</b>
2035	You pass Springfield Bend Lt. (mile 244.8 AHP) at 1242, on 17 October, and estimate the current will average 2.5 mph for the remainder of your trip. What is your ETA at the mouth of the Ohio River if you are making turns for 10.5 mph?	1905, 19 October	2122, 19 October	<b>0519, 21 October</b>	0847, 21 October
2036	As you pass under the Natchez-Vidalia Dual Bridge, the gage on the bridge reads -3.6 feet. If the highest point on your vessel is 62 ft. above the water, what is your vertical clearance?	60.0 feet	63.6 feet	<b>67.6 feet</b>	122.0 feet
2037	What are the color and shape of Togo Island daymark at mile 415.0 AHP?	<b>Green - Square</b>	Green - Diamond	Red - Triangle	Red - Square
2038	At 1227, on 19 October, you pass under the Greenville Highway Bridge (mile 531.3 AHP). What speed must you average to arrive at Jimmy Hawken Light (mile 663.5 AHP) at 0930 the following day?	5.2 mph	5.6 mph	5.9 mph	<b>6.3 mph</b>
2039	Which of the following statements regarding aids to navigation shown in the Corps. of Engineers map book is TRUE?	The U.S. Army Corps.. of Engineers is responsible for placing and maintaining all aids to navigation.	<b>Buoys should always be given as wide a berth in passing as possible.</b>	Buoy positions as shown on the chart are exact.	Lights and daymarks are always shown in their exact location.
2040	The Delta-Friar Point revetment on the LMR extends from mile _____.	<b>657.3 - 652.2 LDB</b>	652.8 - 649.6 RDB	648.5 - 645.5 LDB	645.6 - 641.4 RDB
2041	What is the distance from Baton Rouge, LA, to St. Louis, MO, on the Mississippi River System?	1038 miles	<b>916 miles</b>	690 miles	352 miles

2042	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL,MO, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 2345, on 25 December, you depart Vulcan Chemicals, Memphis Harbor, McKellar Lake (mile 726.0 AHP - LMR) enroute to the Petroleum Fuel &amp; Terminal Co. (144.6 AHP) in Angelina, LA, with a tow of eight full gasoline barges.</p>				
2043	If your vessel is making turns for 7.5 mph with an estimated average current of 1.5 mph, what is your ETA at the dock in Angelina, LA?	0516, 28 Dec	<b>1621, 28 Dec</b>	0516, 29 Dec	1621, 29 Dec
2044	The highest point on your towboat is 67 feet above the water, and the Helena Gage reads +22.3 feet. What is the vertical clearance when you pass under the A-span of the Helena Highway Bridge?	<b>30.1 feet</b>	49.8 feet	52.4 feet	74.7 feet
2045	Which of the following statements are TRUE?	Oil well structures are listed in the Light List.	All aids to navigation with lights have lateral significance.	<b>On the Western Rivers, crossing marks may exhibit white lights.</b>	All of the above.
2046	At 0509, on 26 December, you pass under the Helena Highway Bridge (mile 661.7 AHP). What has been the average speed of the current since departing Memphis Harbor, McKellar Lake, if you have been making turns for 7.5 mph?	1.8 mph	2.1 mph	<b>4.4 mph</b>	5.6 mph
2047	What is the distance in river miles, from the new mouth of the White River to the Petroleum Fuel & Terminal Co.(144.6 AHP)?	370 miles	384 miles	437 miles	<b>454 miles</b>
2048	The Platte River empties into which river?	Mississippi	<b>Missouri</b>	Ohio	Tennessee
2049	You are downbound, passing by Warfield Point Lt. (mile 537 AHP), when you observe on your Mississippi River map several black lines extending into the river from the bank. These indicate _____.	revetments	weirs	fleeting areas	<b>dikes</b>
2050	As you pass under the Vicksburg Bridges, you estimate the current as 3.0 mph. What is the speed over the ground, if your vessel is making turns for 10.5 mph?	7.5 mph	10.5 mph	<b>13.5 mph</b>	16.5 mph
2051	As you approach Buckridge Light (mile 412.5 AHP), which type of daymark would you see on the light structure?	Red diamond	Red triangle	Green diamond	<b>Green square</b>
2052	As you approach mile 225 AHP, you notice on the map a black broken line crossing the river at mile 224.2 AHP. This line indicates _____.	ferry crossing	submarine crossing	gas pipelines	<b>power lines</b>



2053	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL,MO, to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 2345, on 25 December, you depart Vulcan Chemicals, Memphis Harbor, McKellar Lake (mile 726.0 AHP - LMR) enroute to the Petroleum Fuel &amp; Terminal Co. (144.6 AHP) in Angelina, LA, with a tow of eight full gasoline barges.</p>				
2054	If your vessel is making turns for 7.5 mph with an estimated average current of 1.5 mph, what is your ETA at the dock in Angelina, LA?	1621, 28 Dec	2203, 28 Dec	0516, 29 Dec	1621, 29 Dec
2055	The highest point on your towboat is 67 feet above the water, and the Helena Gage reads +22.3 feet. What is the vertical clearance when you pass under the A-span of the Helena Highway Bridge?	74.7 feet	52.4 feet	49.8 feet	30.1 feet
2056	Which of the following statements are TRUE?	Oil well structures are listed in the Light List.	All aids to navigation with lights have lateral significance.	On the Western Rivers, crossing marks may exhibit white lights.	None of the above.
2057	At 0509, on 26 December, you pass under the Helena Highway Bridge (mile 661.7 AHP). What has been the average speed of the current since departing Memphis Harbor, McKellar Lake, if you have been making turns for 7.5 mph?	5.6 mph	4.4 mph	2.1 mph	1.8 mph
2058	What is the distance in river miles, from the new mouth of the White River to the Petroleum Fuel & Terminal Co. (mile 144.6 AHP)?	454 miles	427 miles	384 miles	370 miles
2059	The Platte River empties into which river?	Mississippi	Ohio	Missouri	Tennessee
2060	You are downbound, passing by Spanish Moss Lt. (mile 534.2 AHP), when you observe on your Mississippi River map several black broken lines extending into the river from the bank. These indicate _____.	fleeting areas	revetments	dikes	weirs
2061	As you pass under the Vicksburg Bridges, you estimate the current as 3.0 mph. What is the speed over the ground, if your vessel is making turns for 10.5 mph?	16.5 mph	13.5 mph	10.5 mph	7.5 mph
2062	As you approach Buckridge Light (mile 412.5 AHP), which type of daymark would you see on the light structure?	Red diamond	Red triangle	Green diamond	Green square
2063	As you approach mile 225 AHP, you notice on the map a brown broken-lined rectangular shaped area along the bank. This indicates _____.	weirs	a revetment	a fleeting area	utility crossing

2064	<p>The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo, IL to the Gulf of Mexico) and the Light List. AHP = Above Head of Passes, LMR = Lower Mississippi River, UMR = Upper Mississippi River, OHR = Ohio River, ACOE = Army Corps of Engineers</p> <p>At 1914, on 21 June, you depart the Alton Barge Docks at Alton, IL (Mile 202.0 UMR), with a mixed tow of 6 loaded covered hopper barges, 2 loaded tank barges, and 2 empty hopper barges.</p>				
2065	You have orders to drop off the empties at the fleeting area at Cairo Point and add five loaded tank barges to your tow. If you are turning for 9 mph and estimate the current at 1.5 mph, what is your ETA at Cairo?	1031, 22 June	<b>1423, 22 June</b>	1741, 22 June	2210, 22 June
2066	You complete changing out your tow and get underway enroute Ark City Tank Storage (mile 554.0 AHP) to deliver the tank barges. What is the distance you must travel from Cairo Point Light?	606.8 miles	554.0 miles	<b>399.8 miles</b>	202.1 miles
2067	As you approach Dean Island Light (mile 754.8 AHP), which type of daymark will be observed at the light?	Green triangle	Red and green banded square	Green square daymark	<b>Diamond-shaped green daymark</b>
2068	The highest point on your towboat is 48 feet above the water, and the Memphis Gage reads +7.5 feet. What is the vertical clearance when you pass under the Hernando Desoto Bridge in Memphis?	48.0 feet	<b>53.2 feet</b>	68.2 feet	116.0 feet
2069	What is the mile point of the Fulton Gage?	<b>778 AHP</b>	687 AHP	632 AHP	598 AHP
2070	At 2350 on 23 June, you are at mile 610.5 AHP when you see about a mile ahead lights on the water near the left bank. What might you see when you come abreast of these lights?	Privately maintained buoys at a yacht club	Government buoys marking the Hurricane Point dikes	<b>Barges moored at the Dennis Landing Terminal</b>	A pipeline discharging dredge spoil
2071	Which of the following statements concerning the buoys on the Mississippi River is TRUE?	The position of river buoys can be determined by consulting the latest Light List - Vol. V.	A preferred channel mark is a lateral mark indicating a channel junction which must always be passed to starboard.	<b>Setting a buoy is the act of placing a buoy on assigned position in the water.</b>	None of the above.
2072	At 1032 on 24 June, you pass Carolina Landing Light (mile 508.8 AHP). What has been the average current since 2350, 23 June, if you have been making turns for 9.0 mph?	<b>0.5 mph</b>	1.5 mph	5.7 mph	8.5 mph
2073	Where can scheduled broadcast times of river stages be found?	Sailing Directions	<b>Light List</b>	List of Lights	Coast Pilot
2074	Which company does NOT have a marine facility in Rosedale harbor (mile 585 AHP)?	Sanders Elevator Corp	Rosedale-Boliver County Port Commission	<b>T.L. James</b>	Cives Steel Company