



# Mathematics

## Student Background Questionnaire

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2003  
Grade 12

# SECTION 3

## Section 3

In this section, please tell us about yourself and your family. The section has 15 questions. Mark your answers in your booklet.

1. Are you Hispanic or Latino? Fill in **one or more ovals**.

VB331330

- Ⓐ No, I am not Hispanic or Latino.
- Ⓑ Yes, I am Mexican, Mexican American, or Chicano.
- Ⓒ Yes, I am Puerto Rican or Puerto Rican American.
- Ⓓ Yes, I am Cuban or Cuban American.
- Ⓔ Yes, I am from some other Hispanic or Latino background.

2. Which of the following best describes you? Fill in **one or more ovals**.

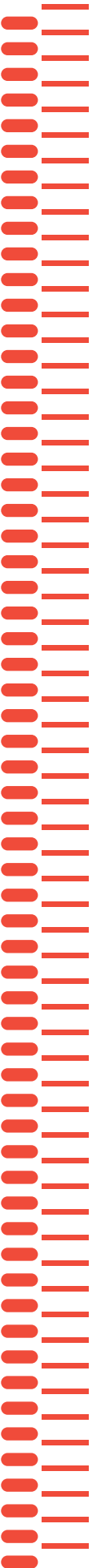
VB331331

- Ⓐ White
- Ⓑ Black or African American
- Ⓒ Asian
- Ⓓ American Indian or Alaska Native
- Ⓔ Native Hawaiian or other Pacific Islander

Section 3

For the rest of the questions in this section, fill in only **one** oval for each question.

3. Does your family get a newspaper at least four times a week? VB331333
- (A) Yes
- (B) No
- (C) I don't know.
4. Does your family get any magazines regularly? VB331334
- (A) Yes
- (B) No
- (C) I don't know.
5. About how many books are there in your home? VB331335
- (A) Few (0-10)
- (B) Enough to fill one shelf (11-25)
- (C) Enough to fill one bookcase (26-100)
- (D) Enough to fill several bookcases (more than 100)
6. Is there a computer at home that you use? VB331336
- (A) Yes
- (B) No
7. Is there an encyclopedia in your home? It could be a set of books, or it could be on the computer. VB331337
- (A) Yes
- (B) No
- (C) I don't know.
8. Is there a world atlas in your home? It could be a book of maps of the world, or it could be on the computer. VB331338
- (A) Yes
- (B) No
- (C) I don't know.
9. About how many pages a day do you have to read in school and for homework? TB001101
- (A) 5 or fewer
- (B) 6-10
- (C) 11-15
- (D) 16-20
- (E) More than 20



10. How often do you talk about things you have studied in school with someone in your family?  
VB331339
- Ⓐ Never or hardly ever
  - Ⓑ Once every few weeks
  - Ⓒ About once a week
  - Ⓓ Two or three times a week
  - Ⓔ Every day
11. On a school day, about how many hours do you usually watch TV or videotapes outside of school?  
VB331340
- Ⓐ None
  - Ⓑ 1 hour or less
  - Ⓒ 2 or 3 hours
  - Ⓓ 4 or 5 hours
  - Ⓔ 6 hours or more
12. How many days were you absent from school in the last month?  
VB331447
- Ⓐ None
  - Ⓑ 1 or 2 days
  - Ⓒ 3 or 4 days
  - Ⓓ 5 to 10 days
  - Ⓔ More than 10 days
13. How far in school did your mother go?  
VB330870
- Ⓐ She did not finish high school.
  - Ⓑ She graduated from high school.
  - Ⓒ She had some education after high school.
  - Ⓓ She graduated from college.
  - Ⓔ I don't know.
14. How far in school did your father go?  
VB330871
- Ⓐ He did not finish high school.
  - Ⓑ He graduated from high school.
  - Ⓒ He had some education after high school.
  - Ⓓ He graduated from college.
  - Ⓔ I don't know.
15. How often do people in your home talk to each other in a language other than English?  
VB331451
- Ⓐ Never
  - Ⓑ Once in a while
  - Ⓒ About half of the time
  - Ⓓ All or most of the time



# SECTION 4

## Section 4

This section has 11 questions. Mark your answers in your booklet. Fill in only **one** oval for each question.

HE000659

1. How much do you agree with each of the following statements? Fill in **one** oval on each line.

	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree	
a. I like mathematics.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	TM810701
b. I am good at mathematics.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	LD001476
c. I understand most of what goes on in mathematics class.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	HE000369
d. There is only one correct way to solve a mathematics problem.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	LD001473
e. Learning mathematics is mostly memorizing facts.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	HE000631
f. Mathematics is useful for solving everyday problems.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	TM810705
g. If I had a choice, I would not study any more mathematics.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	HE000374
h. All students can do well in mathematics if they try.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	QK070699

2. Which courses have you taken from eighth grade to present? You should fill in more than one oval in each row if you have taken a course of that description more than once. If you have never taken a particular course, fill in the oval in the column “**Course not taken.**” Fill in at least one oval in each row.

	Course not taken	I took this course in Grade 8	I took this course in Grade 9	I took this course in Grade 10	I took this course in Grade 11	I took this course in Grade 12	
a. General mathematics	(A)	(B)	(C)	(D)	(E)	(F)	ID110165
b. Business or consumer mathematics	(A)	(B)	(C)	(D)	(E)	(F)	ID110166
c. Applied mathematics or tech prep	(A)	(B)	(C)	(D)	(E)	(F)	ID110167
d. Introduction to algebra or prealgebra	(A)	(B)	(C)	(D)	(E)	(F)	ID110168
e. First-year algebra	(A)	(B)	(C)	(D)	(E)	(F)	ID110169
f. Geometry	(A)	(B)	(C)	(D)	(E)	(F)	ID110170
g. Second-year algebra, with or without trigonometry included	(A)	(B)	(C)	(D)	(E)	(F)	ID110171
h. Trigonometry (as a separate course)	(A)	(B)	(C)	(D)	(E)	(F)	ID110172
i. Precalculus, third-year algebra, elementary functions, or analysis	(A)	(B)	(C)	(D)	(E)	(F)	ID110173
j. Unified, integrated, or sequential mathematics	(A)	(B)	(C)	(D)	(E)	(F)	ID110174
k. Probability or statistics	(A)	(B)	(C)	(D)	(E)	(F)	ID110175
l. Discrete or finite mathematics	(A)	(B)	(C)	(D)	(E)	(F)	ID110176
m. Calculus	(A)	(B)	(C)	(D)	(E)	(F)	ID110177
n. Other mathematics course	(A)	(B)	(C)	(D)	(E)	(F)	ID110178
o. Computer Programming	(A)	(B)	(C)	(D)	(E)	(F)	VB473836

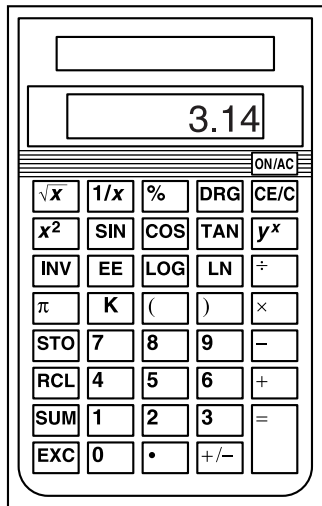
**Questions 3-11.** If you are not taking math this year, stop here. If you are taking math this year, please complete the remainder of this section.

UH000080

3. When you do mathematics in school, how often do you do each of the following?  
Fill in only **one** oval on each line.

	Never or Hardly Ever	Once or Twice a Month	Once or Twice a Week	Almost Every Day	
a. Do mathematics problems from textbooks	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	TM810101
b. Solve mathematics problems with a partner or in small groups	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	HE002478
c. Write a few sentences about how you solved a mathematics problem	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	TM810109
d. Talk with other students during class about how you solved mathematics problems	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	QK070695
e. Use a computer	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	TM810106
f. Use a calculator	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	TM810105

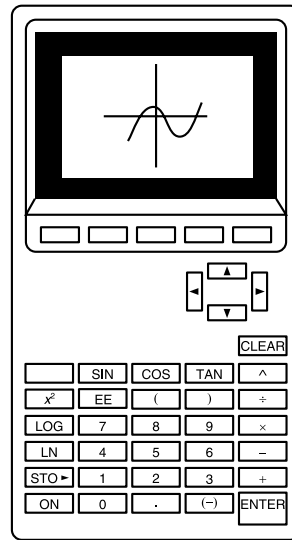
Section 4



HE002484

4. A calculator like the one shown above is a scientific calculator. It has keys with labels  $Y^x$ , LN,  $\pi$ , COS. Do you use a scientific calculator for your mathematics schoolwork?

- A Yes
- B No



HE002485

5. A calculator like the one shown above is a graphing calculator. It can draw a graph in the viewing window. Do you use a graphing calculator for your mathematics schoolwork?

- A Yes
- B No





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■ solve (x^2-5 · x + 6 = 0,x)
                                x = 3 or x = 2
solve (x^2- 5x + 6 = 0,x)
MAIN          DEGAUTO          FUNC

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ID110100

6. A calculator that can do what is shown above is called a symbol manipulator or a computer algebra system. It can work with algebraic expressions directly, and it also has all the functions of graphing calculators. Do you use a symbol manipulator for your mathematics schoolwork?

- (A) Yes  
(B) No

LC000518

7. For mathematics class, how often do you use a calculator for each of the following activities? Fill in **one** oval on each line.

	Never or Hardly Ever	Once or Twice a Month	Once or Twice a Week	Almost Every Day	
a. Classwork	(A)	(B)	(C)	(D)	LC000519
b. Homework	(A)	(B)	(C)	(D)	LC000520

Section 4

QK070698

8. How often does your teacher let you use a calculator for tests or quizzes?

- (A) Never
- (B) Sometimes
- (C) Always

TM810601

9. About how much time do you usually spend each **day** on mathematics homework?

- (A) I am not taking mathematics this year.
- (B) None
- (C) 15 minutes
- (D) 30 minutes
- (E) 45 minutes
- (F) One hour
- (G) More than one hour

ID110202

10. Are you currently enrolled in or have you taken an Advanced Placement course in mathematics? Fill in ovals for all that apply.

- (A) Yes, I am enrolled in or have taken Advanced Placement Calculus AB.
- (B) Yes, I am enrolled in or have taken Advanced Placement Calculus BC.
- (C) Yes, I am enrolled in or have taken Advanced Placement Statistics.
- (D) No, I have never taken an Advanced Placement mathematics course.

QK070703

11. Are you currently enrolled in or have you taken International Baccalaureate courses in mathematics?

- (A) Yes
- (B) No

