

1. **A part of a vehicle and axle-load scale consisting of two main load supports, usually transverse to the direction of which the load is applied is called:**
 - a. weighbridge
 - b. scale section
 - c. transverse lever
 - d. main I beams

2. **According to Handbook 44, the level portion of the approach at each end of an axle-load scale must be**
 - a. wider than the deck.
 - b. at least 40 feet long.
 - c. no longer than the length of the deck.
 - d. long enough to insure the level positioning of vehicles during weight determinations.

3. **The Concentrated Load Capacity (CLC) marked on a scale manufactured after January 1, 1989 is:**
 - a. equivalent to the nominal capacity of the scale.
 - b. the maximum load that may be applied to a single load-bearing point.
 - c. the maximum load that may be applied anywhere on the load-receiving element within the prescribed test pattern.
 - d. the sum of the sectional capacities for the scale.

4. **When a service agency is calibrating a vehicle or axle-load scale, either initially or following repair or official rejection, the objective should be to adjust the scale as closely as practicable to zero error.**
 - a. true
 - b. false

5. Multi-draft (split) weighing is not permissible for commercial transactions:

- a. because the amount of time it takes to weigh multiple sets of axles causes long lines and frustrates other drivers.
- b. because large weighing errors are likely to occur.
- c. multi-draft weighing is permissible for commercial transactions of certain low cost commodities.
- d. unless the scale platform is too short for a tractor trailer combination.

6. The minimum net load allowed to be weighed on a 100 000 x 10 lb vehicle scale that is used to weigh stone products is:

- a. 500 lb
- b. 1 000 lb
- c. one-half the gross load
- d. none of the above as there is no minimum net load for this type scale.

7. The minimum certified test weights required for testing of a 200 000 x 20 lb vehicle scale is:

- a. 10 000 lb
- b. 12 500 lb
- c. 25 000 lb
- d. none of the above.

- 8. You record the following weights for successive shift tests (maintenance tolerance) of a four-section 100 000 x 20 lb vehicle scale with a test load of 20 000 lb (maximum available certified weights):**

Section 1: 19 980 lb

Section 2: 20 000 lb

Section 3: 19 980 lb

Section 4: 20 020 lb

Does this scale conform to maintenance tolerance requirements?(two answers)

a. yes

b. no

Acceptance tolerance requirements?

c. yes

d. no

- 9. You are testing a 60 000 x 10 lb axle-load scale that was placed in service prior to 1986. What is the acceptance tolerance when the test load is 30 000 lb?**

a. 10 lb

b. 20 lb

c. 30 lb

d. 40 lb

- 10. What is the requirement for repeatability on vehicle and axle-load scales?**

a. there is no requirement specified

b. results from several weighings must agree exactly.

c. results from several weighings must agree to within the minimum maintenance tolerance for the scale being tested.

d. results from several weighings must agree to within the absolute value of the maintenance tolerance for that test load.

