

Chapter Test

Check Your Knowledge

Multiple Choice Copy the number of each sentence below on a sheet of paper. Choose the letter of the answer that best completes the statement or answers the question.

- When an object moves, it acquires
(a) friction. (c) energy of motion.
(b) traction. (d) speed.
- The length of time you take to execute an action is called your _____ time.
(a) total stopping (c) braking
(b) perception (d) reaction
- Which of the following is an example of a supplemental restraint system?
(a) air bag (c) lap and shoulder
(b) safety belt belt (d) antilock brake
- In a _____ situation, you must divide the amount of available traction between stopping and steering.
(a) reduced traction (c) sharp curve
(b) split traction (d) banked curve

Completion Copy the number of each sentence below. After each number, write the word or words that complete the sentence correctly.

- The force that pulls all things to earth is called _____.
- A vehicle's energy of motion will change in proportion to the _____ of its change in speed.
- The gripping ability of a tire will _____ as the amount of tread touching the road increases.
- The _____ your speed, the longer your braking distance.

Review Vocabulary

Copy the number of each definition in List A. Match the definition in List A with the term it defines in List B.

List A

- grooved surface of a tire that grips the road
- point around which an object's weight is evenly distributed
- restraint device that you have to engage
- distance your vehicle travels while you make a stop
- force that keeps each tire from sliding on the road

List B

- active device
- friction
- tread
- total stopping distance
- center of gravity

Think Critically

Write a paragraph to answer each question.

- Explain the relationship between traction and the amount of air in a vehicle's tires. Use the terms "underinflation" and "overinflation" in your answer.
- Discuss how speed, sharpness of curve, and your car's load affect how you control your vehicle in a curve. Why are banked curves often beneficial?