

# *Reinforcement* Speed, Velocity, and Acceleration

**Directions:** Write the word or phrase that correctly completes each of the following sentences.

1. An object's total distance traveled divided by the total time it travels is its \_\_\_\_\_.
2. \_\_\_\_\_ is a vector quantity defined as the rate at which velocity changes over time.
3. The rate of change of an object's position over a period of time, without information about the direction in which the object is traveling, is its \_\_\_\_\_.
4. A measurement of both the speed and direction of motion of an object is that object's \_\_\_\_\_.
5. The speed of an object at a specific point in time is its \_\_\_\_\_.
6. \_\_\_\_\_ is a property of an object that travels the same distance each second.
7. Velocity and acceleration are both \_\_\_\_\_ quantities, while speed is not.

**Directions:** Compare and contrast each of the following pairs of words.

8. acceleration, velocity  
\_\_\_\_\_  
\_\_\_\_\_
9. velocity, speed  
\_\_\_\_\_  
\_\_\_\_\_
10. instantaneous speed, constant speed  
\_\_\_\_\_  
\_\_\_\_\_
11. velocity, location  
\_\_\_\_\_  
\_\_\_\_\_