

Chapter 12

Use with Section 1

REINFORCEMENT**• What is motion?**

In the blank, write the term that best completes each statement.

- _____ 1. The rate of change of an object's _____ is called speed.
- _____ 2. Velocity includes both speed and _____ .
- _____ 3. _____ measures the change in position of an object.
- _____ 4. The rate of change of displacement is _____ .
- _____ 5. Average _____ is found by dividing the total distance traveled by the time it takes.
- _____ 6. Direction and velocity are _____ to a frame of reference.
- _____ 7. Average _____ is found by dividing change in velocity by time.

Answer the following questions.

8. If a bicycle racer cycled 45 km in 1.25 hours, what was her average speed? _____

9. In the statement "the bus went south on I-57 at 96 km/h," what is the velocity? _____

10. Are average speed and average velocity always the same measurement? Why or why not?
