

**SECTION 1** Measuring Motion continued

The average speed of the dog is:

$$\text{average speed} = \frac{\text{total distance walked}}{\text{total time}} = \frac{7 \text{ m}}{10 \text{ s}} = .07 \text{ m/s}$$

**What Is Velocity?**

Suppose that two birds leave the same tree at the same time. They both fly at 10 km/h for 5 min, then 5 km/h for 10 min. However, they don't end up in the same place. Why not?

The birds did not end up in the same place because they flew in different directions. Their speeds were the same, but because they flew in different directions, their velocities were different. **Velocity** is the speed of an object and its direction. **ET**

The velocity of an object is constant as long as both speed and direction are constant. If a bus driving at 15 m/s south speeds up to 20 m/s south, its velocity changes. If the bus keeps moving at the same speed but changes direction from south to east, its velocity also changes. If the bus brakes to a stop, the velocity of the bus changes again.

The table below shows that velocity is a combination of both the speed of an object and its direction.

| Speed  | Direction | Velocity     |
|--------|-----------|--------------|
| 15 m/s | south     | 15 m/s south |
| 20 m/s | south     | 20 m/s south |
| 20 m/s | east      | 20 m/s east  |
| 0 m/s  | east      | 0 m/s east   |

Velocity changes when the speed changes, when the direction changes, or when both speed and direction change. The table below describes various situations in which the velocity changes.

| Situation                             | What changes        |
|---------------------------------------|---------------------|
| Skidding falling layer and basket     |                     |
| Runner going around a turn on a track | direction           |
| Car taking an exit off a highway      | speed and direction |
| Train arriving at a station           | speed               |
| Baseball being caught by a catcher    | speed               |
| Baseball hit by a batter              | speed and direction |

 **READING CHECK**

**B. Analyze** Someone tells you that the velocity of a car is 55 m/s. Is this correct? Explain your answer.

 **Say It**

**Share Experiences** Have you ever experienced a change in velocity on an amusement park ride? In pairs, share an experience. Explain how the velocity changed—was it a change in speed, direction, or both?

**TAKE A LOOK**

**B. Identify** Fill in the empty boxes in the table.

# Measuring Motion Section Interactive Textbook Answer Key

**CH Cherryholmes**



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