Skills Worksheet

# **Section Review**

# **Gravity and Motion**

### **USING KEY TERMS**

1. Use each of the following terms in a separate sentence: terminal velocity and free fall.

#### UNDERSTANDING KEY IDEAS

- 2. Which of the following is in projectile motion?
  - a. a feather falling in a vacuum
  - b. a cat leaping on a toy
  - c. a car driving up a hill
  - d. a book laying on a desk

3. How does air resistance affect the acceleration of falling objects?

- 4. How does gravity affect the two components of projectile motion?
- 5. How is the acceleration of falling objects affected by gravity?

6. Why is the acceleration due to gravity the same for all objects?

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Class	Date

Section Review continued

## MATH SKILLS

Name

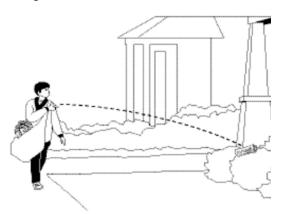
7. A rock at rest falls off a tall cliff and hits the valley below after 3.5 s. What is the rock's velocity as it hits the ground? Show your work below.

## **CRITICAL THINKING**

- 8. **Applying Concepts** Think about a sport that uses a ball. Identify four examples from that sport in which an object is in projectile motion.
- 9. **Making Inferences** The moon has no atmosphere. Predict what would happen if an astronaut on the moon dropped a hammer and a feather at the same time from the same height.

## **INTERPRETING GRAPHICS**

10. Whenever Jon delivers a newspaper to the Zapanta house, the newspaper lands in the bushes, as shown below. What should Jon do to make sure the newspaper lands on the porch?



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