

Section Review

Physical Properties

USING KEY TERMS

1. Use each of the following terms in a separate sentence: *physical property* and *physical change*.

UNDERSTANDING KEY IDEAS

- _____ 2. The units of density for a rectangular piece of wood are
- a. grams per milliliter.
 - b. cubic centimeters.
 - c. kilograms per liter.
 - d. grams per cubic centimeter.
3. Explain why a golf ball is heavier than a table-tennis ball even though the balls are the same size.

4. Describe what happens to a substance when it goes through a physical change.

5. Identify six examples of physical properties.

Section Review *continued*

6. List six physical changes that matter can go through.

MATH SKILLS

7. What is the density of an object that has a mass of 350 g and a volume of 95 cm³? Would this object float in water? Explain. Show your work below.

8. The density of an object is 5 g/cm³, and the volume of the object is 10 cm³. What is the mass of the object? Show your work below.

CRITICAL THINKING

9. **Applying Concepts** How can you determine that a coin is not pure silver if you know the mass and volume of the coin?

10. **Identifying Relationships** What physical property do the following substances have in common: water, oil, mercury, and alcohol?

11. **Analyzing Processes** Explain how you would find the density of an unknown liquid if you have all of the laboratory equipment that you need.
