

Section Review

Elements

USING KEY TERMS

1. Use the following terms in the same sentence: *element and pure substance*.

UNDERSTANDING KEY IDEAS

- _____ 2. A metalloid
- a. may conduct electric current.
 - b. can be ductile.
 - c. is also called a semiconductor.
 - d. All of the above
3. What is a pure substance?

MATH SKILLS

4. There are eight elements that make up 98.5% of the Earth's crust: 46.6% oxygen, 8.1% aluminum, 5.0% iron, 3.6% calcium, 2.8% sodium, 2.6% potassium, and 2.1% magnesium. The rest is silicon. What percentage of Earth's crust is silicon? Show your work below.

Section Review *continued*

CRITICAL THINKING

5. **Applying Concepts** From which category of elements would you choose to make a container that wouldn't shatter if dropped? Explain your answer.

6. **Making Comparisons** Compare the properties of metals, nonmetals, and metalloids.

7. **Evaluating Assumptions** Your friend tells you that a shiny element has to be a metal. Do you agree? Explain.
