

Section Review

Compounds

USING KEY TERMS

1. In your own words, write a definition for the term *compound*.

UNDERSTANDING KEY IDEAS

- _____ 2. The elements in a compound
- a. join in a specific ratio according to their masses.
 - b. combine by reacting with one another.
 - c. can be separated by chemical changes.
 - d. All of the above
3. What type of change is needed to break down a compound?

MATH SKILLS

4. Table sugar is a compound made of carbon, hydrogen, and oxygen. If sugar contains 41.86% carbon and 6.98% hydrogen, what percentage of sugar is oxygen? Show your work below.

CRITICAL THINKING

5. **Applying Concepts** Iron is a solid, gray metal. Oxygen is a colorless gas. When they chemically combine, rust is made. Rust has a reddish brown color. Why is rust different from the iron or oxygen that it is made of?

Section Review *continued*

6. **Analyzing Ideas** A jar contains samples of the elements carbon and oxygen. Does the jar contain a compound? Explain your answer.
