

Section Review

Ionic and Covalent Compounds

USING KEY TERMS

1. Use each of the following terms in a separate sentence: *ionic compound*, *covalent compound*, and *chemical bond*.

UNDERSTANDING KEY IDEAS

- _____ 2. Which of the following describes an ionic compound?
- a. It has a low melting point.
 - b. It consists of shared electrons.
 - c. It conducts electric current in water solutions.
 - d. It consists of two nonmetals.

3. List two properties of covalent compounds.

MATH SKILLS

4. A compound contains 39.37% chromium, 38.10% oxygen, and potassium. What percentage of the compound is potassium? Show your work below.

Section Review *continued*

CRITICAL THINKING

5. **Making Inferences** Solid crystals of ionic compounds do not conduct an electric current. But when the crystals dissolve in water, the solution conducts an electric current. Explain.

6. **Applying Concepts** Some white solid crystals are dissolved in water. If the solution does not conduct an electric current, is the solid an ionic compound or a covalent compound? Explain.
