

REVIEW

4

SECTION 4.1

Compounds and Molecules

1. **Explain** why it is more difficult to separate the elements of a compound than the substances in a mixture.

2. **Write** the numbers and kinds of atoms or ions contained in the following compounds:

_____	a. NaCl
_____	b. CO ₂
_____	c. KBr
_____	d. NH ₃
_____	e. MgO

3. **Describe** the difference between a ball-and-stick model and a space-filling model of a compound.

4. **Explain** why a substance with a network structure has a high melting point.

5. **Contrast** the structure of table salt and table sugar.

6. **Predict** whether a compound with a boiling point of 68°C is likely to be a network solid or in the form of individual molecules.
