

REVIEW

3 SECTION 3.2**A Guided Tour of the Periodic Table**

1. **Write** the chemical symbol for each of the following elements:

_____ a. manganese

_____ d. uranium

_____ b. lead

_____ e. radon

_____ c. carbon

_____ f. silver

2. **State** the importance of valence electrons in the organization of the periodic table.

3. **Describe** the difference between the atomic number and the mass number of an atom.

4. **Understanding Systems** Why do atoms of Group 1 elements lose electrons to form cations, while atoms of Group 17 elements gain electrons to form anions?

5. **Create** a chart that shows the different isotopes of hydrogen. State the name of each isotope, and write the number of protons, neutrons, and electrons found in each isotope.

6. **Explain** how the relative abundance of each hydrogen isotope affects hydrogen's average atomic mass.
