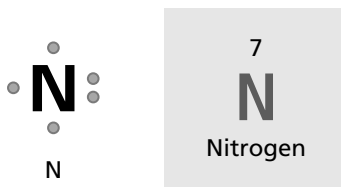


Atoms and Bonding ▪ 5.1 Review and Reinforce

Atoms, Bonding, and the Periodic Table**Understanding Main Ideas**

Use the diagrams to answer questions 1–5 in the spaces provided.



1. What is the atomic number of the element represented by the diagrams?

2. How many protons does the element have? _____
3. How many valence electrons does the element have? _____
4. Is the element reactive or stable? How do you know?

5. Is the element a metal or nonmetal? _____
6. What are valence electrons?

7. The force of attraction that holds two atoms together is called a(n)

8. Name two events involving electrons that can result in the formation of chemical bonds between atoms.

9. How can you tell whether or not an element will react with other elements?

10. What do atoms of elements in the same group of the periodic table have in common?

11. When metals react with other elements, the atoms of the metals _____ electrons.
12. When nonmetals react with metals, the atoms of the nonmetals _____. When nonmetals react with other nonmetals, the atoms of the nonmetals _____ electrons.