**Activity 9: Valence and the Periodic Table**

***Learning Objectives***

*Determine the number of valence electrons in elements 1–20*

**Estimated Completion Time** 15 Minutes

**Instructor Information**

This short activity asks students to note trends in number of valence electrons in atoms and ions for the first 20 elements. It is an essential activity prior to Activity 10.

**ANSWERS TO QUESTIONS**

1. a. 4 b. 7 c. 6 d. 4

2. Yes, they are in the same group on the periodic table.

**Activity 9: Skill Development**

1. a. 7 b. 7 c. 1 d. 3

2. a. 5 b. 2 c. 8 d. 8