

MATH SKILLS TRANSPARENCY WORKSHEET**6****Using the Periodic Table****Use with Chapter 6,
Section 6.2**

1. Identify the number of valence electrons in each of the following elements.

a. Ne _____ e. O _____

b. K _____ f. Cl _____

c. B _____ g. P _____

d. Mg _____ h. Si _____

2. Identify the energy level of the valence electrons in each of the following elements.

a. Br _____

b. N _____

c. Ra _____

d. H _____

e. Ar _____

f. I _____

3. Use the periodic table to write the electron configurations (using noble gas notation) for each of the following elements.

a. Li _____

b. F _____

c. As _____

d. Sr _____

e. Bi _____

4. Determine the group, period, and block of the elements having the following electron configurations.

a. $1s^2$ _____

b. $[\text{Ne}]3s^23p^1$ _____

c. $[\text{Ar}]4s^1$ _____

d. $[\text{Kr}]5s^24d^1$ _____

e. $[\text{Xe}]6s^24f^{14}5d^{10}6p^4$ _____