



# IONIC AND METALLIC BONDING

## Practice Problems

Do your work on a separate sheet of paper.

### SECTION 7.1 IONS

1. How many electrons does each atom have? How many protons does each atom have? How many electrons does each ion have? (See Table 7.1.)

a.  $\text{Na}^+$ b.  $\text{Cl}^-$ c.  $\text{Mg}^{2+}$ 

2. How many electrons does each atom have? How many protons does each ion have?

a.  $\text{Ca}^{2+}$ b.  $\text{S}^{2-}$ c.  $\text{Al}^{3+}$ 

3. How many electrons does each atom have? How many protons does each ion have?

a.  $\text{Fe}^{2+}$ b.  $\text{Br}^-$ c.  $\text{Zn}^{2+}$ d.  $\text{Mn}^{2+}$ e.  $\text{O}^{2-}$ 

4. How many electrons does each atom have? How many protons does each ion have? How many electrons does each ion have?

5. How many electrons does each atom have? How many protons does each ion have? How many electrons does each ion have?

a.  $\text{K}^+$ b.  $\text{F}^-$ c.  $\text{Ba}^{2+}$ d.  $\text{Ca}^{2+}$ e.  $\text{Mg}^{2+}$ f.  $\text{P}^{3-}$ 

6. How many electrons does each atom have? How many protons does each ion have?

a.  $\text{Li}^+$ b.  $\text{O}^{2-}$ c.  $\text{Fe}^{2+}$ d.  $\text{Al}^{3+}$ 

7. How many electrons does each atom have? How many protons does each ion have?

a.  $\text{Na}^+$ b.  $\text{Cl}^-$ c.  $\text{Mg}^{2+}$ d.  $\text{S}^{2-}$ 

8. How many electrons does each atom have? How many protons does each ion have?

a.  $\text{Fe}^{2+}$ b.  $\text{Br}^-$ c.  $\text{Zn}^{2+}$ d.  $\text{Mn}^{2+}$ e.  $\text{O}^{2-}$ f.  $\text{Ca}^{2+}$

# Ionic And Metallic Bonding Answer Key Chapter Test A

**M Walker**



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