## **Worksheet 12: Balancing Chemical Reactions I**

Name:

Balance the following chemical reactions by placing the appropriate coefficients within the given reactions. Also, name the type of reaction: Synthesis, Decomposition, or Single Replacement.

1) \_\_\_ Fe + \_\_\_ 
$$O_2 \rightarrow$$
 \_\_\_ Fe<sub>2</sub> $O_3$ 

Name of Reaction:

Name of Reaction:

3) 
$$\underline{\hspace{0.5cm}}$$
 NaBr  $\rightarrow$   $\underline{\hspace{0.5cm}}$  Na +  $\underline{\hspace{0.5cm}}$  Br<sub>2</sub>

Name of Reaction:

4) 
$$\_$$
  $Al + \_$   $Cl_2 \rightarrow \_$   $AlCl_3$ 

Name of Reaction:

$$5) \underline{\qquad} MgS \rightarrow \underline{\qquad} Mg + \underline{\qquad} S_8$$

Name of Reaction:

6) 
$$\_$$
 NaOH +  $\_$  Ca  $\rightarrow$   $\_$  Na +  $\_$  Ca(OH)<sub>2</sub>

Name of Reaction:

7) \_\_\_ KCl +\_\_ Br<sub>2</sub> 
$$\rightarrow$$
 \_\_\_ KBr +\_\_ Cl<sub>2</sub>

Name of Reaction:

8) 
$$\_$$
 Be<sub>3</sub> $N_2 \rightarrow \_$  Be +  $\_$   $N_2$ 

Name of Reaction:

9) 
$$Rb + I_2 \rightarrow RbI$$

Name of Reaction:

10) \_\_\_ 
$$Al +$$
\_\_\_  $HBr \rightarrow$  \_\_\_  $Al Br_3 +$ \_\_\_  $H_2$ 

Name of Reaction: