## **Predicting Chemical Reactions**

Predict the products in each of the reactions below. Balance your completed equations.

1. 
$$KI(aq) + Pb(NO_3)_2(aq) \rightarrow$$

$$2. N_2(g) + H_2(g) \rightarrow$$

3. 
$$HCl(aq) + Al(OH)_3(s) \rightarrow$$

4. 
$$MgCl_2(l) \rightarrow$$

5. 
$$C_6H_{12}O_6(s) + O_2(g) \rightarrow$$

6. 
$$Mg(s) + N_2(g) \rightarrow$$

7. Al(s) + Pb(NO<sub>3</sub>)<sub>2</sub>(aq) 
$$\rightarrow$$

8. 
$$HCl(aq) + Ba(OH)_2(aq) \rightarrow$$

9. 
$$C_4H_{10}(g) + O_2(g) \rightarrow$$

10. 
$$H_2O_2(l) \rightarrow$$

PRI	EDICTING	PROD	UCTS
OF	CHEMICA	L REA	CTIONS

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predict the products of the reactions below. Then, write the balanced equation and classify the reaction.

- 1. magnesium bromide + chlorine
- 2. aluminum + iron (III) oxide
- 3. silver nitrate + zinc chloride
- 4. hydrogen peroxide (catalyzed by manganese dioxide)
- 5. zinc + hydrochloric acid
- 6. sulfuric acid + sodium hydroxide
- 7. sodium + hydrogen
- 8. acetic acid + copper