Predicting Products of Reactions

Chem Worksheet 10-4

Name _____

Write the chemical formulas for the products in each equation. Make sure that the charge on each ionic compound is neutral.

1. $SiI_4 + Mg \rightarrow$ *(single replacement)*

2. $Sb + I_2 \rightarrow$ *(synthesis)*

3. $CuCl_2 + KOH \rightarrow$ *(double replacement)*

4. $NH_3 \rightarrow$ *(decomposition)*

5. $Mg + HCl \rightarrow$ *(single replacement)*

6. $CH_4 + O_2 \rightarrow$ *(combustion)*

7. $HNO_3 + Ba(OH)_2 \rightarrow$ *(double replacement)*

8. $KClO_3 \rightarrow$ *(decomposition)*

9. $Zn + O_2 \rightarrow$ *(synthesis)*

10. $Fe + CuSO_4 \rightarrow$ *(single replacement)*

11. $AlBr_3 + Cl_2 \rightarrow$ *(single replacement)*

12. $C_3H_8 + O_2 \rightarrow$ *(combustion)*

Using the information below write complete equations for the following reactions. Balance each equation.

13. Lithium metal reacts with liquid bromine.

14. Potassium metal reacts with silver chloride.

15. When sodium metal reacts with hydrochloric acid bubbles of a combustible gas form.

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