Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr: \_\_\_\_\_\_\_\_

**Write the complete balanced equation (i.e. write the products then balance) for the reaction of:**

Al2(CO3)3 + K2O 🡪

K2CrO4 + AgNO3 🡪

KI + Pb(NO3)2 🡪

Pb(NO3)2 + KI 🡪

CuNO3+ ZnCl2 🡪

Ca + HCl🡪

K + HOH🡪

magnesium chloride and silver sulfate 🡪

calcium phosphate and aluminum chloride 🡪

Magnesium and Copper (II) Chloride🡪

Iron(III) oxide and Aluminum🡪

CLASSIFY EACH REACTION AND BALANCE IF NEEDED

1. PbCl2   +   AgNO3    🡪   Pb(NO3)2   +   AgCl    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.    NH3 +   HCl     🡪         NH4Cl      \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.    AlCl3   +    Na2SO4         🡪     Al2(SO4)3  +   NaCl     \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.    Zn   +   S    🡪     ZnS            \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5.    Al2(SO4)3    +   BaCl2        🡪      BaSO4  +   AlCl3      \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.    Al2S3     🡪     Al   +   S            \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7.    H2SO4 +    Fe         🡪       H2    +   FeSO4        \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8.    C12H22O11    +    O2     🡪        CO2    +    H2O    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9.    Mg(OH)2   +   H2SO4     🡪        MgSO4    +    H2O   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10.    NaOH    +     CuSO4 🡪               Na2SO4+   Cu(OH)2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11.    C4H12   +    O2     🡪          H2O   +   CO2     \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12.    Fe   +    O2       🡪          Fe2O3       \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13.    Mg3(PO4)2    +    H2         🡪     Mg  +  H3PO4   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14.    NH4NO3 🡪     N2O   +   H2O       \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15.    Cl2 + KBr      🡪        KCl   +   Br2   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_