Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Balancing Chemical Equations

**Balance the equations below. For 13-22, you first have to write the equation from the names given.**

1) \_\_\_\_ KClO3 🡪 \_\_\_\_ KCl + \_\_\_\_ O2

2) \_\_\_\_ NaCl + \_\_\_\_ F2 🡪 \_\_\_\_ NaF + \_\_\_\_ Cl2

3) \_\_\_\_ Pb(OH)2 + \_\_\_\_ HCl 🡪 \_\_\_\_ H2O + \_\_\_\_ PbCl2

4) \_\_\_\_ AlBr3 + \_\_\_\_ K2SO4 🡪 \_\_\_\_ KBr + \_\_\_\_ Al2(SO4)3

5) \_\_\_\_ CH4 + \_\_\_\_ O2 🡪 \_\_\_\_ CO2 + \_\_\_\_ H2O

6) \_\_\_\_ C8H18 + \_\_\_\_ O2 🡪 \_\_\_\_ CO2 + \_\_\_\_ H2O

7) \_\_\_\_ FeCl3 + \_\_\_\_ NaOH 🡪 \_\_\_\_ Fe(OH)3 + \_\_\_\_NaCl

8) \_\_\_\_ P + \_\_\_\_O2 🡪 \_\_\_\_P2O5

9) \_\_\_\_ Na + \_\_\_\_ H2O 🡪 \_\_\_\_ NaOH + ­­­\_\_\_\_H2

10) \_\_\_\_ S8­ + \_\_\_\_O2 🡪 \_\_\_\_ SO3

11) \_\_\_\_ HCl + \_\_\_\_ CaCO3 🡪 \_\_\_\_ CaCl2 + \_\_\_\_H2O + \_\_\_\_ CO2

12) \_\_\_\_ HNO3 + \_\_\_\_ NaHCO3 🡪 \_\_\_\_ NaNO3 + \_\_\_\_ H2O + \_\_\_\_ CO2

13) potassium chloride + silver nitrate 🡪 potassium nitrate + silver chloride

14 ) aluminum hydroxide + sodium nitrate 🡪 aluminum nitrate + sodium hydroxide

15) iron metal + copper(II) sulfate 🡪 iron(II) sulfate + copper metal

16) aluminum metal + copper(II) chloride 🡪 aluminum chloride + copper metal

17) potassium bromide 🡪 potassium metal + bromine

18) calcium carbonate 🡪 calcium oxide + carbon dioxide gas

19) zinc metal + oxygen gas 🡪 zinc oxide

20) chlorine gas + sodium metal 🡪 sodium chloride

21) aluminum sulfate + barium chloride 🡪 aluminum chloride + barium sulfate

22) beryllium fluoride + magnesium 🡪 magnesium fluoride + beryllium