Honors Chemistry Hour\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Dr. Wexler  
Balancing Ionic Equations Review  
Date:

1) \_\_\_\_ AlBr3 + \_\_\_\_ K 🡪 \_\_\_\_ KBr + \_\_\_\_ Al

2) \_\_\_\_ FeO + \_\_\_\_ PdF2 🡪 \_\_\_\_ FeF2 + \_\_\_\_ PdO

3) \_\_\_\_ P4 + \_\_\_\_ Br2 🡪 \_\_\_\_ PBr3

4) \_\_\_\_ LiCl + \_\_\_\_ Br2 🡪 \_\_\_\_ LiBr + \_\_\_\_ Cl2

5) \_\_\_\_ PbBr2 + \_\_\_\_ HCl 🡪 \_\_\_\_ HBr + \_\_\_\_ PbCl2

6) \_\_\_\_ CoBr3 + \_\_\_\_ CaSO4 🡪 \_\_\_\_ CaBr2 + \_\_\_\_ Co2(SO4)3

7) \_\_\_\_ Na3P + \_\_\_\_ CaF2 🡪 \_\_\_\_ NaF + \_\_\_\_ Ca3P2

8) \_\_\_\_ Mn + \_\_\_\_ HI 🡪 \_\_\_\_ H2 + \_\_\_\_ MnI3

9) \_\_\_\_ Li3PO4 + \_\_\_\_ NaBr 🡪 \_\_\_\_ Na3PO4 + \_\_\_\_ LiBr

10) \_\_\_\_ CaF2 + \_\_\_\_ Li2SO4 🡪 \_\_\_\_ CaSO4 + \_\_\_\_ LiF

11) \_\_\_\_ HBr + \_\_\_\_ Mg(OH)2 🡪 \_\_\_\_ MgBr2 + \_\_\_\_ H2O

12) \_\_\_\_ LiNO3 + \_\_\_\_ CaBr2 🡪 \_\_\_\_ Ca(NO3)2 + \_\_\_\_ LiBr

13) \_\_\_\_ AgNO3 + \_\_\_\_ Li 🡪 \_\_\_\_ LiNO3 + \_\_\_\_ Ag

14) \_\_\_\_ Si(OH)4 + \_\_\_\_ NaBr 🡪 \_\_\_\_ SiBr4 + \_\_\_\_ NaOH

15) \_\_\_\_ NaCN + \_\_\_\_ CuCO3 🡪 \_\_\_\_ Na2CO3 + \_\_\_\_ Cu(CN)2

**Another Balancing Equations Sheet! – Answers**

*Balance these equations!*

**Note to students: Whenever balancing an equation, it is acceptable to leave spaces blank instead of writing “1’ – in chemistry, they mean the same thing.**

1) **1** AlBr3 + **3** K 🡪 **3** KBr + **1** Al

2) **1** FeO + **1** PdF2 🡪 **1** FeF2 + **1** PdO

3) **1** P4 + **6** Br2 🡪 **4** PBr3

4) **2** LiCl + **1** Br2 🡪 **2** LiBr + **1** Cl2

5) **1** PbBr2 + **2** HCl 🡪 **2** HBr + **1** PbCl2

6) **2** CoBr3 + **3** CaSO4 🡪 **3** CaBr2 + **1** Co2(SO4)3

7) **2** Na3P + **3** CaF2 🡪 **6** NaF + **1** Ca3P2

8) **2** Mn + **6** HI 🡪 **3** H2 + **2** MnI3

9) **1** Li3PO4 + **3** NaBr 🡪 **1** Na3PO4 + **3** LiBr

10) **1** CaF2 + **1** Li2SO4 🡪 **1** CaSO4 + **2** LiF

11) **2** HBr + **1** Mg(OH)2 🡪 **1** MgBr2 + **2** H2O

12) **2** LiNO3 + **1** CaBr2 🡪 **1** Ca(NO3)2 + **2** LiBr

13) **1** AgNO3 + **1** Li 🡪 **1** LiNO3 + **1** Ag

14) **1** Si(OH)4 + **4** NaBr 🡪 **1** SiBr4 + **4** NaOH

15) **2** NaCN + **1** CuCO3 🡪 **1** Na2CO3 + **1** Cu(CN)2