Balancing Chemical Reactions Practice

Place coefficients in the Following Skeleton Equations to Balance Them

1. \_\_\_\_\_ RbI + \_\_\_\_\_ MgCl2 → \_\_\_\_\_ RbCl + \_\_\_\_\_ MgI2

2. \_\_\_\_\_ N2 + \_\_\_\_\_ O2 → \_\_\_\_\_ NO2

3. \_\_\_\_\_ S + \_\_\_\_\_ N2O → \_\_\_\_\_ S2O5 + \_\_\_\_\_ N2

4. \_\_\_\_\_ Al + \_\_\_\_\_ O2 → \_\_\_\_\_ Al2O3

5. \_\_\_\_\_ Ga(NO3)3 + \_\_\_\_\_ Mg3N2 → \_\_\_\_\_ GaN + \_\_\_\_\_ Mg(NO3)2

1. \_\_\_\_ NaBr + \_\_\_\_ Be(OH)2 🡪 \_\_\_ BeBr2 + \_\_\_\_ NaOH
2. \_\_\_\_ NH3+ \_\_\_\_ CO3 🡪 \_\_\_\_ (NH3)2CO3
3. \_\_\_\_ C4H8 + \_\_\_\_ O2 🡪 \_\_\_\_ CO2 + \_\_\_\_ H2O
4. \_\_\_\_ Sn + \_\_\_\_ H3PO3 🡪 \_\_\_\_ H2 + \_\_\_\_ Sn3(PO3)2
5. \_\_\_\_ Li3N + \_\_\_\_ NH4NO3 🡪 \_\_\_ LiNO3 + \_\_\_ (NH4)3N
6. \_\_\_\_ HBr + \_\_\_ Al(OH)3 🡪 \_\_\_ H­2O + \_\_\_ AlBr3

**\*Note: H2O is the same as HOH**

1. \_\_\_\_ Na3PO4 + \_\_\_KOH 🡪 \_\_\_NaOH + \_\_\_ K3PO4

Write Proper Skeleton Equations from the Following Word Equations, Then Place Coefficients to Balance the Equations.

13. Lithium and Oxygen yield Lithium Oxide

14. Sodium and Sulfur yield Sodium Sulfide

15. Magnesium Chloride and Potassium Oxide yield Potassium Chloride and Magnesium Oxide

16. Hydrogen sulfide and sodium hydroxide yield water and sodium sulfide

17. Ammonium bromide and calcium oxide yield ammonium oxide and calcium bromide

18. nickel (III) nitride and beryllium fluoride yield nickel (III) fluoride and beryllium nitride

19. dicarbon hexahydride and oxygen yield carbon dioxide and water

20. Hydrogen Chloride and Calcium Hydroxide yield water and Calcium Chloride