1. 5.0 g of magnesium react with 0.004 mol of iodine. How many grams of magnesium iodide will form?
2. 15.0 g of magnesium react with 8.00 g of aluminum chloride to produce aluminum and magnesium chloride. How many moles of aluminum will result?
3. How many grams of water are produced when 0.035 mol of phosphoric acid reacts with 0.010 mol of magnesium hydroxide?
4. 14.0 g of aluminum chloride are reacted with 20.0 g of sodium carbonate. How many grams of each product will form?
5. 20.0 L of hydrogen at STP and 15 L of oxygen at STP react. How many litres of water can be produced from this reaction?
6. 8.51 g of hydrogen and 9.25 g of oxygen react to form water.
7. Which reactant is in excess?
8. How much excess is there in grams?
9. How much water is produced in grams?
10. Potassium reacts with chlorine to form potassium chloride. If 0.143 grams of potassium is reacted with 0.236 grams of chlorine,
11. Which reactant is the limiting reactant?
12. How much excess is there of the excess reactant in grams?
13. How much potassium chloride is produced in grams?