

More Stoichiometry Problems

- 1) If 20.0 g of magnesium react with excess hydrochloric acid, how many grams of magnesium chloride are produced? [Single replacement reaction]
- 2) How many grams of chlorine gas must be reacted with excess sodium iodide if 10.0 g of sodium chloride are needed? [Single replacement reaction]
- 3) How many grams of oxygen are produced in the decomposition reaction of 5.00 g of potassium chlorate?
- 4) What mass of copper is required to replace silver from 4.00 g of silver nitrate dissolved in water? [Copper (II) nitrate is produced.]
- 5) If excess ammonium sulfate reacts with 20.0 g of calcium hydroxide, how many grams of ammonia are produced?



- 6) If excess sulfuric acid reacts with 30.0 g of sodium chloride, how many grams of hydrogen chloride are produced? [Hydrogen chloride dissolved in water is known as hydrochloric acid.]
- 7) How much silver phosphate is produced if 10.0 g of silver acetate reacts with excess sodium phosphate?
- 8) How many grams of sodium hydroxide are needed to completely neutralize 25.0 g of sulfuric acid? [Neutralize means that the OH^- will exactly react with the H^+ to make H_2O .]

Answer omelet: 20.4g 1.95g 18.7g 18.0g 78.4g 6.07g 9.18g 7.47g 36.8g 8.36g