

## Solutions Podcast #7: Solutions Stoichiometry; SC7a, SC2cd



1) How many grams of AgCl are produced when 40.0 mL of 0.25M AgNO<sub>3</sub> is reacted with excess NaCl? The other product is NaNO<sub>3</sub>.

2). In the following reaction with excess HCl, 45 mL of 0.100 M NaHCO<sub>3</sub> produces how many liters of carbon dioxide at STP?



3) Excess Zinc reacts with 1.0 L of 0.50M hydrochloric acid. How many liters of hydrogen gas are produced at 585 torr and 50°C?

4) 4.50 grams of lead II chromate is produced from the reaction of 100 mL of sodium chromate and 100 mL lead II nitrate. What is the initial molarity of the lead II nitrate?

5) 50.0 mL of 0.75M potassium iodide reacts with 50.0 mL of 0.75 M lead II nitrate. How many grams of precipitate are formed? (Note that this is both a solution stoichiometry problem and a limiting reactant problem)