Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # \_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_\_\_\_\_\_\_

***Stoichiometry: Limiting Reagent***

1. N2 + 3H2 → 2NH3

How many grams of NH3 can be produced from the reaction of 28 g of N2 and 25 g of H2?

Which reactant is in excess and which is limiting?

1. In lab, 50.0g magnesium and 75g of hydrochloric acid react. Predict the products and balance the equation.

Which substance is limiting the reaction? (Show your work)

What volume of hydrogen gas (STP) will be produced from the reaction if 50.0 g of Mg is used?

What volume of hydrogen gas at STP would be produced if 75g of hydrochloric is used?

1. Silver nitrate and sodium phosphate are reacted in equivalent amounts of 200 g each. How many grams of silver phosphate are produced?

What substance is in excess and which is limiting?

1. How many grams of aluminum hydroxide are produced if 165.7 grams of aluminum sulfate are reacted with 142g of calcium hydroxide?

What is the limiting reagent?