## STOICHIOMETRY: MASS-MASS PROBLEMS

Name \_\_\_\_\_

1.  $2KCIO_3 \rightarrow 2KCI + 3O_2$ 

How many grams of potassium chloride are produced if 25 g of potassium chlorate decompose?

2.  $N_2 + 3H_2 \rightarrow 2NH_3$ 

How many grams of hydrogen are necessary to react completely with 50.0 g of nitrogen in the above reaction?

3. How many grams of ammonia are produced in the reaction in Problem 2?

4.  $2AgNO_3 + BaCl_2 \rightarrow 2AgCl + Ba(NO_3)_2$ 

How many grams of silver chloride are produced from 5.0 g of silver nitrate reacting with an excess of barium chloride?

5. How much barium chloride is necessary to react with the silver nitrate in Problem 4?