**Chemistry**

**Limiting Reactants Worksheet**

**Solve the following problems. Answer in sig figs and include units.**

1) 100.0 grams of sodium sulfate reacts with 50.00 grams of barium nitrate to form sodium nitrate and barium sulfate.

A) How many grams of barium sulfate will form?

B) How many grams of excess reactant remain?

2) 15.5 grams of hydrogen gas reacts with 30.0 grams of oxygen gas to form water. How many grams of water will form?

3) 10.0 g of acetic acid reacts with 10.0 g of lead (II) hydroxide to form water and lead (II) acetate. How many grams of excess reactant will remain after the reaction goes to completion?

4) 25.3 g of magnesium reacts with 44.3 g of copper (II) nitrate to form copper and magnesium nitrate.

A) What mass of copper will form?

B) How many grams of excess reactant will remain after the reaction goes to completion?

5) Ammonium nitrate and sodium phosphate go through a double replacement reaction. Assume we started with 30. grams of ammonium nitrate and 50. grams of sodium phosphate.

A) How many grams of each product will form?

B) How much excess reactant is left over?

6) Dicarbon hexahydride combusts. If 15 g of dicarbon hexahydride react with 45 g of oxygen, how many grams of each product will form?