

Percent Yield Worksheet

- 1) Write the equation for the reaction of iron (III) phosphate with sodium sulfate to make iron (III) sulfate and sodium phosphate.



- 2) If I perform this reaction with 25 grams of iron (III) phosphate and an excess of sodium sulfate, how many grams of iron (III) sulfate can I make?
- 3) If 18.5 grams of iron (III) sulfate are actually made when I do this reaction, what is my percent yield?
- 4) Is the answer from problem #3 reasonable? Explain.
- 5) If I do this reaction with 15 grams of sodium sulfate and get a 65.0% yield, how many grams of sodium phosphate will I make?

Limiting Reagent Worksheet

All of the questions on this worksheet involve the following reaction: When copper (II) chloride reacts with sodium nitrate, copper (II) nitrate and sodium chloride are formed.

- 1) Write the balanced equation for the reaction given above:



- 2) If 15 grams of copper (II) chloride react with 20 grams of sodium nitrate, how much sodium chloride can be formed?

- 3) What is the limiting reagent for the reaction in #2? _____

- 4) How much of the nonlimiting reagent is left over in this reaction?

- 5) If 11.3 grams of sodium chloride are formed in the reaction described in problem #2, what is the percent yield of this reaction?