

Percent Yield Calculations

- 1) Balance this equation and state which of the six types of reaction is taking place:



Type of reaction: _____

- 2) If I start this reaction with 40 grams of magnesium and an excess of nitric acid, how many grams of hydrogen gas will I produce?

- 3) If 1.7 grams of hydrogen is actually produced, what was my percent yield of hydrogen?

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- 4) Balance this equation and state what type of reaction is taking place:



Type of reaction: _____

- 5) If 25 grams of carbon dioxide gas is produced in this reaction, how many grams of sodium hydroxide should be produced?

- 6) If 50 grams of sodium hydroxide are actually produced, what was my percent yield?

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?