

Percent Yield Practice (#7)

adapted from *ChemFiesta.com*

- 1)
 - a) Write the balanced equation: lithium hydroxide + calcium chloride →
 - b) The reaction began with 20.00 grams of lithium hydroxide. What is the theoretical yield of calcium hydroxide?
 - c) The reaction produced 26.75 grams of calcium hydroxide. What is the percent yield?

- 2) In a reaction, a theoretical yield of Bauckium was 10.70 grams. If the student obtained 4.50 grams, what was the percent yield?

- 3)
 - a) Write the balanced equation: sodium carbonate + calcium nitrite →
 - b) What is the theoretical yield of calcium carbonate if a chemist begins with 150.0 grams of sodium carbonate?
 - c) The actual yield of calcium carbonate is 130.55 g. What is the percent yield?

- 4)
 - a) Write the balanced equation: beryllium + phosphoric acid →
 - b) What is the theoretical yield of beryllium phosphate if the reaction begins with 34.0 grams of beryllium?
 - c) What is the percent yield of beryllium phosphate if the actual yield is 225.11 grams?

- 5)
 - a) Balance the following equation: complete combustion of C_3H_8
 - b) If a reaction starts with 5.0 grams of C_3H_8 , what is the theoretical yield of water?
 - c) CHALLENGE: If the percent yield is 75%, how many grams of water were produced?