

1. 14.2 g of silver nitrate and excess barium chloride are reacted in a double replacement reaction. What is the mass of silver chloride produced?

2. Iron is allowed to sit in a vat of copper II sulfate and a single replacement reaction occurs. The products will be Iron II sulfate and elemental copper.
 - a. What mass of copper will be recovered from the reaction of 12.25 g of iron?

 - b. What was the mass of copper II sulfate was consumed?

3. 54.5 g of barium hydroxide is added to a solution that contains 200 g of hydrochloric acid.
 - a. Which is the limiting reactant?

 - b. How much barium chloride will be produced?

 - c. What is the mass of the left over reactant?

4. 42.0 g of oxygen is allowed to react with excess sulfur in the production of sulfur trioxide. If 56 grams of sulfur trioxide is recovered, what is the percent yield for this reaction?

5. What is the percent yield in a reaction in which 13.1 g of lithium Iodide and 7.8 g of bromine product if 8.1 g lithium bromide is recovered with an unknown quantity of Iodine solid.