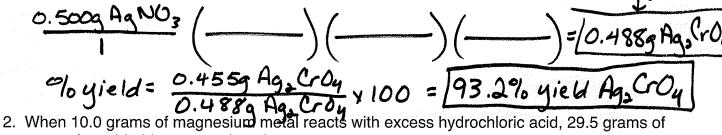
1. When excess potassium chromate is added to a solution containing 0.500 g silver nitrate, solid silver chromate forms. At the reaction's completion, 0.455 grams of silver chromate was obtained.

a. Write a balanced chemical equation for this reaction (phases not needed).

b. Mass of limiting reactant: 0.500 a Mass of actual yield: 0.455 a

c. Calculate the theoretical yield and percent yield of silver chromate.



- magnesium chloride was produced.
 - a. Write a balanced chemical equation for this reaction (phases not needed).

b. Mass of limiting reactant: _____ Mass of actual yield: ____

c. Calculate the theoretical yield and percent yield of magnesium chloride.

= 75.3% yield

3. When 13.2 grams of salicylic acid reacts with excess acetic anhydride, 5.9 grams of aspirin is produced. Chemical equation for this reaction:

> $C_4H_6O_3$ 2 C₇H₆O₃ 2 C₉H₈O₄ H_2O (acetic anhydride) (salicylic acid) (aspirin)

- b. Mass of limiting reactant: _____ Mass of actual yield: ____
- c. Calculate the theoretical yield and percent yield of aspirin.