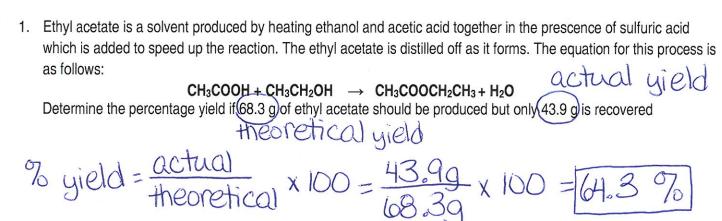
## **Percent Yield Practice Problems**



2. Tungsten can be produced from its oxide by reacting the oxide with hydrogen at a high temperature according to the following equation:

wing equation:  $WO_3 + 3H_2 \rightarrow W + 3H_2O$  Actual yield What is the percentage yield if 56.9 g of WO<sub>3</sub> yields 41.4 g)of tungsten in the lab?

% yield = 41.4g x 100 = 91.8%

3. If 6.57 g of iron react with an excess of hydrochloric acid, HCl, then 11.2 g of iron(II) chloride are obtained in addition to hydrogen gas. Find the theoretical and percent yields.

Fe + 2 HCl 
$$\rightarrow$$
 FeCl<sub>2</sub> + H<sub>2</sub>