Name		
	Period	

## **Stoichiometry Practice Problems #2**

1. If 120. g of sodium carbonate react with an excess of calcium hydroxide, how many grams of sodium hydroxide are formed?

 $_{\text{Na}_2\text{CO}_3}$  +  $_{\text{Ca}(\text{OH})_2}$   $\rightarrow$   $_{\text{NaOH}}$  +  $_{\text{CaCO}_3}$ 

2. When 80.0 g of calcium chloride react with an excess of silver nitrate, how many grams of silver chloride are produced?

 $\underline{\hspace{0.5cm}}$  CaCl<sub>2</sub> +  $\underline{\hspace{0.5cm}}$  AgNO<sub>3</sub>  $\rightarrow$   $\underline{\hspace{0.5cm}}$  Ca(NO<sub>3</sub>)<sub>2</sub> +  $\underline{\hspace{0.5cm}}$  AgCl

3. How many grams of oxygen are produced by heating 400.0 g of potassium chlorate?  $\__KCIO_3 \rightarrow \__KCI + \__O_2$  4. How many grams of calcium carbonate are required to prepare 50.0 g of calcium oxide?

 $\underline{\qquad}$  CaCO<sub>3</sub>  $\rightarrow$   $\underline{\qquad}$  CaO +  $\underline{\qquad}$  CO<sub>2</sub>

5. Calculate the mass of sulfur which would react with 2.555g of copper.

 $\underline{\quad}$  Cu +  $\underline{\quad}$  S<sub>8</sub>  $\rightarrow$   $\underline{\quad}$  Cu<sub>2</sub>S

6. Calculate the grams of silver formed by heating 10.0 g of silver oxide.

 $Ag_2O \rightarrow Ag + O_2$