

**Directions:** Use the mole highway and dimensional analysis to solve. Show all your work!

1) \_LiOH + \_HBr  $\rightarrow$  \_LiBr + \_H<sub>2</sub>O [unbalanced] If you start with 10 g of lithium hydroxide, how many grams of lithium bromide will be produced? Ans: 36.3 g LiBr

2)  $\_C_2H_4 + \_O_2 \rightarrow \_CO_2 + \_H_2O$  [unbalanced] If you start with 45 grams of ethylene (C<sub>2</sub>H<sub>4</sub>), how many grams of carbon dioxide will be produced? Ans: 141.4 g CO<sub>2</sub>

3) \_LiCl + \_CaF<sub>2</sub>  $\rightarrow$  \_LiF + \_CaCl<sub>2</sub> [unbalanced] If you start with 5.5 grams of lithium chloride, how many grams of calcium chloride will be produced? **Ans: 7.14 g CaCl**<sub>2</sub>

4) \_\_HCl + \_\_Na<sub>2</sub>SO4  $\rightarrow$  \_\_NaCl + \_\_H<sub>2</sub>SO<sub>4</sub> [unbalanced] If you start with 20 grams of hydrochloric acid, how many grams of sulfuric acid will be produced?

<b>N</b>	<b>Mass to Mass Stoich</b> Worksheet #1	/10	
	Name:	Period:	Seat #

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4)  $\_HCl + \_Na_2SO_4 \rightarrow \_NaCl + \_H_2SO_4$  [unbalanced] If you start with 20 grams of hydrochloric acid, how many grams of sulfuric acid will be produced?