

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

1) _LiOH + _HBr \rightarrow _LiBr + _H₂O [unbalanced] If you start with 10 g of lithium hydroxide, how many grams of lithium bromide will be produced? Ans: 36.3 g LiBr



Mass to Mass Stoich Worksheet #1

/10

Name:

Period: Seat #

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

1) __LiOH + __HBr \rightarrow _LiBr + __H₂O [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_2H_4), how many grams of carbon dioxide will be produced? Ans: 141.4 g CO₂ 2) $_C_2H_4 + _O_2 \rightarrow _CO_2 + _H_2O$ [unbalanced] If you start with 45 grams of ethylene (C_2H_4), how many grams of carbon dioxide will be produced? Ans: 141.4 g CO₂

3) $_LiCl + _CaF_2 \rightarrow _LiF + _CaCl_2$ [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_2** 3) __LiCl + __CaF₂ \rightarrow __LiF + __CaCl₂ [unbalanced] If you start with 5.5 grams of lithium chloride, how many grams of calcium chloride will be produced? **Ans: 7.14 g CaCl₂**

4) __HCl + __Na₂SO4 \rightarrow __NaCl + __H₂SO₄ [unbalanced] If you start with 20 grams of hydrochloric acid, how many grams of sulfuric acid will be produced? 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?