

Name _____ Date _____

Stoichiometry Worksheet

1. Calculate the number of moles of KOH needed to react with 450.0 g of H_3PO_4 according to the following equation:



answer: 13.77 mol KOH

2. Calculate the mass of H_2 produced when 80.0 g of Al reacts with excess HCl according to the following equation:



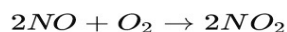
answer: 8.97 g H_2

3. Identify the limiting reactant and determine the mass of CO_2 that can be produced from the reaction of 30.0 g of C_2H_2 with 85.0 g of O_2 according to the following equation:



answer: 93.8 g CO_2 (O_2 is the limiting reactant)

4. How many grams of NO_2 are produced when 180 g of NO reacts with 150 g of O_2 according to the following equation:



answer: 275.8 g NO_2 (NO is the limiting reactant)