Ch3/ Worksheet – 4 Limiting Reagent **Name:** _____

Write the equation and balance it where necessary. **Show all work.**

1. What is the maximum number of grams of ammonia, NH_3, which can be obtained from the reaction of 10.0 g of H_2 and 80.0 g of N_2? Calculate the grams of excess reagent left. (Ans: 56.7 g, 33.3 g)

2. What is the theoretical yield of chromium that can be produced by the reaction of 40.0 g of Cr_2O_3 with 8.00 g of aluminum? Calculate the percent yield if 13.9 g of product is produced. Calculate the grams of excess reagent left. (15.4 g, 90%, 17.5 g)