Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Limiting Reactant Worksheet**

1) What mass of CS2 is produced when 17.5g of C are reacted with 39.5g of SO2 according to the equation 5C + 2SO2 CS2 + 4CO ? What mass of excess reactant will be left over?

2) What mass of NO is produced when 87.0g of Cu are reacted with 225g of HNO3 according to the equation 3Cu + 8HNO3 3Cu(NO3)2 + 2NO + 4H2O ? What mass of excess reactant will be left over?

3) What mass of Br2 is produced when 25.0g of K2Cr2O7, 55.0g of KBr and 60.0g of H2SO4 are reacted according to the equation

K2Cr2O7 + 6KBr + 7H2SO4 4K2SO4 + Cr2(SO4)3 + 3Br2 + 7H2O ?

How many grams of each excess reactant will remain unreacted?

4) What volume of CO2(g) at STP can be made when 0.0250L of C5H12(l) (density 626.0 g/L) is reacted with 40.0L of O2(g) at STP, according to the equation

C5H12(l) + 8O2(g) 5CO2(g) + 6H2O(l) ?