

Stoichiometry Problem Guidelines:

1. _____ the equation
2. convert to _____ of _____ substance
3. MAKE THE _____ USING _____
FROM BALANCED EQUATION
4. convert to _____

Problem Set One

Limiting Reactant

_____ used up _____ in a _____ reaction.

Excess Reactant

_____ that is not used up in a chemical _____

Ex. Problem:

When FeCl_3 reacts with O_2 , Fe_2O_3 and Cl_2 are produced. If 4.0 moles of FeCl_3 and 4.0 moles of O_2 are mixed, how many grams of Fe_2O_3 will be produced?



(Hint: Work two separate problems, using one reactant at a time.)

(Hint: Answer will be the (smaller, larger) amount of product.)

What is the limiting reactant?

What is the excess reactant?

Problem Set Two (Work on back.)

The Chemistry Quiz

CR1.

CR2.

1.

2.

3.

4.

5.