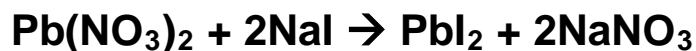


Limiting Reagent Worksheet

Using your knowledge of stoichiometry and limiting reagents, answer the following questions:

- 1) Write the balanced equation for the reaction of lead (II) nitrate with sodium iodide to form sodium nitrate and lead (II) iodide:



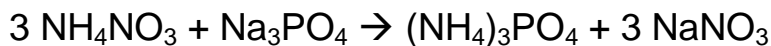
- 2) If I start with 25.0 grams of lead (II) nitrate and 15.0 grams of sodium iodide, how many grams of sodium nitrate can be formed?
- 3) What is the limiting reagent in the reaction described in problem 2?
- 4) How much of the nonlimiting reagent will be left over from the reaction in problem #2?

Limiting Reagent Worksheet

For the following reactions, find the following:

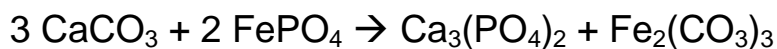
- a) Which of the reagents is the limiting reagent?*
- b) What is the maximum amount of each product that can be formed?*
- c) How much of the other reagent is left over after the reaction is complete?*

- 1) Consider the following reaction:



Answer the questions above, assuming we started with 30 grams of ammonium nitrate and 50 grams of sodium phosphate.

- 2) Consider the following reaction:



Answer the questions at the top of this sheet, assuming we start with 100 grams of calcium carbonate and 45 grams of iron (III) phosphate.