

Basic Stoichiometry Post-Lab Homework Exercises

1. Load the "Reactants, Products, and Leftovers" simulation and work through each of the levels of the Game! At <http://phet.colorado.edu/> or googling "phet." You may have to download or update Java on your computer.

Show your work for all calculations. Remember: Labels, units, sig figs and cancellation!

2. For the reaction $P_4 + 6Cl_2 \rightarrow 4PCl_3$, determine how many moles of chlorine Cl_2 would be needed to react with 4.0 moles of phosphorus P_4 to entirely use up all the phosphorus. 4) _____

3. If 3.00 moles of P_4 reacted with 22.0 moles Cl_2 according to the above reaction, determine:

- a) How many moles PCl_3 are produced a) _____
- b) How many moles of P_4 are left in excess after the reaction (if any) b) _____
- c) How many moles of Cl_2 are left in excess after the reaction (if any) c) _____

In reality, reactants don't have to react in perfect whole-numbers of moles. In a two-reactant synthesis reaction, usually **one reactant gets entirely used up (and determines how much product is made)**, even if that means using fractions of a mole of reactant. For instance, when solid, metallic aluminum Al and red, liquid bromine Br_2 are brought together, they make a white solid according to the reaction $2Al + 3Br_2 \rightarrow 2AlBr_3$. If 5.0 moles of aluminum Al was reacted with 10 moles bromine Br_2 , all five moles of aluminum would react, with only 7.5 moles bromine. (2:3 mole ratio) This would produce only 5.0 moles of $AlBr_3$, leaving 2.5 moles of excess Br_2 behind.

5. Now assume 3.0 moles Al and 4.0 moles Br_2 react.

- a) How much (in moles) $AlBr_3$ gets produced? a) _____
- b) Which chemical must be the *excess reactant*? b) _____
- c) Which chemical is the *limiting reactant*? c) _____
- d) If all the limiting reactant gets used up, how much of the excess reactant is left? d) _____

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Answer Key

Judd E. Hollander



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