

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) _____

Basic Stoichiometry Post Lab Homework Exercises

Answer Key

J Elliott



Basic Stoichiometry Post Lab Homework Exercises Answer Key:

Basic Stoichiometry Post Lab Homework Exercises Answer Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Basic Stoichiometry Post Lab Homework Exercises Answer Key**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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