

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

Mark Steyvers



Basic Stoichiometry Post Lab Homework Exercises Answer Key:

Unveiling the Magic of Words: A Review of "**Basic Stoichiometry Post Lab Homework Exercises Answer Key**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Basic Stoichiometry Post Lab Homework Exercises Answer Key**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

<https://matrix.jamesarcher.co/files/publication/HomePages/The%20Encyclopedia%20Of%20Demons%20And%20Devils%20Core%20Rulebook.pdf>

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