

### 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 Answers

**Y Pai**



**Basic Stoichiometry Post Lab Homework Exercises Answers:**

This book delves into Basic Stoichiometry Post Lab Homework Exercises Answers. Basic Stoichiometry Post Lab Homework Exercises Answers is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Basic Stoichiometry Post Lab Homework Exercises Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Basic Stoichiometry Post Lab Homework Exercises Answers
    - Chapter 2: Essential Elements of Basic Stoichiometry Post Lab Homework Exercises Answers
    - Chapter 3: Basic Stoichiometry Post Lab Homework Exercises Answers in Everyday Life
    - Chapter 4: Basic Stoichiometry Post Lab Homework Exercises Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Basic Stoichiometry Post Lab Homework Exercises Answers. This chapter will explore what Basic Stoichiometry Post Lab Homework Exercises Answers is, why Basic Stoichiometry Post Lab Homework Exercises Answers is vital, and how to effectively learn about Basic Stoichiometry Post Lab Homework Exercises Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Basic Stoichiometry Post Lab Homework Exercises Answers. This chapter will elucidate the essential principles that must be understood to grasp Basic Stoichiometry Post Lab Homework Exercises Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Basic Stoichiometry Post Lab Homework Exercises Answers in daily life. The third chapter will showcase real-world examples of how Basic Stoichiometry Post Lab Homework Exercises Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Basic Stoichiometry Post Lab Homework Exercises Answers in specific contexts. This chapter will explore how Basic Stoichiometry Post Lab Homework Exercises Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Basic Stoichiometry Post Lab Homework Exercises Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Basic Stoichiometry Post Lab Homework Exercises Answers.

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