

## Mole Ratios

How can the coefficients in a chemical equation be interpreted?

NATALIA  
LACAYO  
P. 2

### Why?

A balanced chemical equation can tell us the number of reactant and product particles (ions, atoms, molecules or formula units) that are necessary to conserve mass during a chemical reaction. Typically when we balance the chemical equation we think in terms of individual particles. However, in real life the reaction represented by an equation occurs an unimaginable number of times. Short of writing very large numbers ( $10^{23}$  or larger) in front of each chemical in the equation, how can we interpret chemical equations so that they more realistically represent what is happening in real life? In this activity you will explore the different ways a chemical reaction can be interpreted.

### Model 1 – A Chemical Reaction



1. Consider the reaction in Model 1.

a. What are the coefficients for each of the following substances in the reaction?

**1**  $\text{N}_2$

**3**  $\text{H}_2$

**2**  $\text{NH}_3$

b. Draw particle models below to illustrate the reaction in Model 1.



2. Consider each situation below as it relates to the reaction in Model 1.

a. Calculate the amount of reactants consumed and products made.

b. Record the ratio of  $\text{N}_2$  to  $\text{H}_2$  to  $\text{NH}_3$ . Reduce the ratio to the lowest whole numbers possible.

	$\text{N}_2$ Consumed	$\text{H}_2$ Consumed	$\text{NH}_3$ Produced	Ratio $\text{N}_2:\text{H}_2:\text{NH}_3$ (reduced)
For a single reaction, how many molecules of each substance would be consumed or produced?	<b>1</b>	<b>3</b>	<b>2</b>	<b>1:3:2</b>
If the reaction occurred one hundred times, how many molecules would be consumed or produced?	<b>100</b>	<b>300</b>	<b>200</b>	<b>1:3:2</b>
If the reaction occurred 538 times, how many molecules would be consumed or produced?	<b>538</b>	<b>1614</b>	<b>1076</b>	<b>1:3:2</b>

# Mole Ratios Worksheet Model 1 A

**Miriam Drake**



## Mole Ratios Worksheet Model 1 A:

**Science Spectrum** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 Chemical, Biochemical, and Engineering Thermodynamics Stanley I. Sandler, 2017-04-24 In this newly revised 5th Edition of Chemical and Engineering Thermodynamics Sandler presents a modern applied approach to chemical thermodynamics and provides sufficient detail to develop a solid understanding of the key principles in the field The text confronts current information on environmental and safety issues and how chemical engineering principles apply in biochemical engineering bio technology polymers and solid state processing This book is appropriate for the undergraduate and graduate level courses **Chemical Engineering Education**, 2004 **Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications** Juma Haydary, 2019-01-16 A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software A comprehensive and practical resource the text uses both Aspen Plus and Aspen Hysys simulation software The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors separators and heat exchangers The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used In addition to aid in comprehension solutions to examples of real problems are included The final section covers plant design and simulation of processes using nonconventional components This important resource Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical principles of chemical process and design with real world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids oil blends polymers and electrolytes Presents examples that are solved using a new version of Aspen software ASPEN One 9 Written for students and academics in the field of process design Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software *AIChE Symposium Series* American Institute of Chemical Engineers, 1972 **Working with Chemistry** Donald J. Wink, Sharon Fetzer-Gislason, Julie Ellefson Kuehn, 2004-02-20 With this modular laboratory program students build skills using important chemical concepts and techniques to the point where they are able to design a solution to a scenario drawn from a professional environment The scenarios are drawn from the lives of people who work with chemistry every day ranging from field ecologists to chemical engineers and include many health professionals as well *The Pressured Child* Michael Thompson, PhD, 2011-08-17 The push for students to excel at school and get into the best colleges has never been more intense In this invaluable new book

the bestselling co author of *Raising Cain* addresses America's performance driven obsession with the accomplishments of its kids and provides a deeply humane response. How was school? These three words contain a world of desire on the part of parents to know what their children are learning and experiencing in school each day. Children may not divulge much but psychologist Michael Thompson suggests that the answers are there if we know how to read the clues and equally important if we remember our own school days. School, Thompson reminds us, occupies more waking hours than kids spend at home and school is full not just of studies but of human emotion: excitement, fear, envy, love, anger, sexuality, boredom, competitiveness. Through richly detailed interviews, case histories and student e-mail journals including those of his own children, Thompson illuminates the deeper psychological journey that school demands: a journey that all children must take in order to grow and develop, whether they are academic aces or borderline dropouts. Most of us remember this journey if we are honest with ourselves but our children must experience it in their own way, for better or worse. In stories that are by turns poignant, shocking, uplifting and inspiring, we see students grapple with the textured reality of their lives, devising their own unique strategies to survive and thrive in school. For parents, this book reveals the hidden emotional landscape of the school day and points toward the answers we both desire and dread as we seek to help our children find success in school and beyond. Bridging the worlds of the growing and the grown up and told in Thompson's compassionate voice as both psychologist and father, *The Pressured Child* shows us how to listen for the truth of our children's experience and how to trust, love and ultimately let go of a child. It is a crucial book for our stressful age and an ideal resource for families struggling to survive it.

**Introduction to Software for Chemical Engineers** Mariano Martín Martín, 2025-03-24. The field of chemical engineering and its link to computer science is in constant evolution and engineers have an ever growing variety of tools at their disposal to tackle everyday problems. *Introduction to Software for Chemical Engineers* Third Edition provides a quick guide to the use of various computer packages for chemical engineering applications. It covers a range of software applications including Excel and general mathematical packages such as MATLAB, MathCAD, R and Python. Coverage also extends to process simulators such as CHEMCAD, HYSYS and Aspen, equation based modeling languages such as gPROMS, optimization software such as GAMS, AIMS and Julia and specialized software like CFD or DEM codes. The different packages are introduced and applied to solve typical problems in fluid mechanics, heat and mass transfer, mass and energy balances, unit operations, reactor engineering and process and equipment design and control. This new edition is updated throughout to reflect software updates and new packages. It emphasizes the addition of SimaPro due to the importance of life cycle assessment as well as general statistics software SPSS and Minitab that readers can use to analyze lab data. The book also includes new chapters on flowsheeting, drawing, process control and LOOP Pro as well as updates to include Pyomo as an optimization platform reflecting current trends. The text offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real world problems. Written by leading experts, this handbook

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