

## 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 Chemical Reaction

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## **Mole Ratios Worksheet Model 1 A Chemical Reaction:**

The Top Books of the Year Mole Ratios Worksheet Model 1 A Chemical Reaction The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Let's delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year.

**The Must-Read :**

**Colleen Hoover's "It Ends with Us"** This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

**Mole Ratios Worksheet Model 1 A Chemical Reaction : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo"** This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

**Discover the Magic : Delia Owens' "Where the Crawdads Sing"** This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. *The Secret History* is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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