

Mole Ratios

How can the coefficients in a chemical equation be interpreted?

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?



& 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.

& Record the ratio of N_2 to H_2 to NH_3 . Reduce the ratio to the lowest whole numbers possible.

	N_2 Consumed	H_2 Consumed	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?				
If the reaction occurred one hundred times, how many molecules would be consumed or produced?				

23 Mole Ratios S

Scott C. Dulebohn



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Adopting the Track of Phrase: An Mental Symphony within **23 Mole Ratios S**

In some sort of consumed by monitors and the ceaseless chatter of instant interaction, the melodic beauty and emotional symphony produced by the written word usually diminish into the background, eclipsed by the relentless sound and disturbances that permeate our lives. However, located within the pages of **23 Mole Ratios S** a charming literary treasure overflowing with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that interesting masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden tunes and profound influence resonating within each cautiously crafted phrase. Within the depths of the emotional examination, we shall investigate the book is main harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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