

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^{25} 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?

N_2

H_2

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 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?				
If the reaction occurred 538 times, how many molecules would be consumed or produced?				

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Adopting the Song of Phrase: An Psychological Symphony within **Answers Pogil Activities Mole Ratios**

In a global consumed by screens and the ceaseless chatter of instant interaction, the melodic splendor and mental symphony created by the written term often fade in to the back ground, eclipsed by the constant noise and distractions that permeate our lives. But, set within the pages of **Answers Pogil Activities Mole Ratios** a stunning fictional value filled with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this fascinating masterpiece conducts readers on an emotional trip, well unraveling the concealed melodies and profound impact resonating within each cautiously crafted phrase. Within the depths with this touching review, we can explore the book is key harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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