

3. Refer to the data table in Question 2.

a. How do the reduced ratios in the last column compare to the coefficients in the reaction shown in Model 1?

The ratios are the same as the coefficients in Model 1: 1:3:2.

b. Use mathematical concepts to explain how your answer in part a is possible.

The coefficients were all multiplied by the same number, so they all ended back to the same thing.

4. Even 538 is a small number of molecules to use in a reaction. Typically chemists use much larger numbers of molecules. (Recall that one mole is equal to 6.02×10^{23} particles.) Consider each situation below as it relates to the reaction in Model 1: $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightarrow 2\text{NH}_3(\text{g})$.

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 number possible.

	N_2 Consumed	H_2 Consumed	NH_3 Produced	Ratio $\text{N}_2:\text{H}_2:\text{NH}_3$
If the reaction occurred 6.02×10^{23} times, how many molecules would be consumed or produced?	6.02×10^{23}	1.81×10^{24}	1.20×10^{24}	1 : 3 : 2
How many <i>moles</i> of each substance would be consumed or produced in the previous situation?	1	3	2	1 : 3 : 2

5. Refer to the data table in Question 4.

a. How do the reduced ratios in the last column compare to the coefficients in the reaction in Model 1?

The reduced ratios are the same as the coefficients.

b. Use mathematical concepts to explain how your answer in part a is possible.

We are still multiplying coefficients by the same number so we just didn't everything by the number to get back to a reduced ratio.

6. The ratio obtained from the coefficients in a balanced chemical equation is called the **mole ratio**.

a. What is the mole ratio for the reaction in Model 1?



b. Explain why this ratio is called the mole ratio?

It is the reduced ratio in moles (all the coefficients = 6.02×10^{23}).

Mole Ratios Pogil Activities For High School Chemistry

D Kirk

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Mole Ratios Pogil Activities For High School Chemistry:

Decoding **Mole Ratios Pogil Activities For High School Chemistry**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mole Ratios Pogil Activities For High School Chemistry**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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