

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 reduced ratios consist of the same numbers as the coefficients.

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

Each coefficient in the reaction was multiplied by the same number, so the reduced ratios are the same.

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  $6.02 \times 10^{23}$  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  $\text{N}_2$  to  $\text{H}_2$  to  $\text{NH}_3$ . Reduce the ratio to the lowest whole number possible.

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

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

Each coefficient in the reaction was multiplied by the same number, so the reduced ratios are the same.

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?

The coefficients represent the number of moles of the reactants and products that would react or be produced if the chemical reaction occurred  $6.02 \times 10^{23}$  times.

# Math Skills Transparency Answers 9

**Joana Vassilopoulou, Olivia Kyriakidou**



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