

Stoichiometry

Answer Key

Vocabulary: Avogadro's number, balanced equation, cancel, coefficient, dimensional analysis, molar mass, mole, molecular mass, stoichiometry

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. A 250 mL glass of orange juice contains 22 grams of sugar. How much sugar is in a two-liter (2,000 mL) bottle of orange juice? *176 grams of sugar*
2. It requires two sticks of butter to make a batch of 20 cookies. How much butter will it take to make 150 cookies? *15 sticks of butter*

Gizmo Warm-up

Just as a cook follows a recipe to decide how much of each ingredient to add, a chemist uses **stoichiometry** to determine the amounts of substances involved in chemical reactions. The Stoichiometry Gizmo™ allows you to try your hand at figuring out the amounts of reactants and products that take part in a chemical reaction.

To begin, check that this equation is shown:



1. Look at the **coefficients** (such as the "3" in 3CO) in front of each substance in the equation. The coefficients tell you how many molecules or atoms take part in a chemical reaction. In the spaces below, list the number of each molecule or atom in the equation:

Fe_2O_3 *1*

CO *3*

Fe *2*

CO_2 *3*

2. In a **balanced equation**, the same number of each kind of atom is shown on each side of the equation. Calculate the number of iron (Fe), oxygen (O), and carbon atoms (C).

Reactants

Iron: *2*

Oxygen: *6*

Carbon: *3*

Products

Iron: *2*

Oxygen: *6*

Carbon: *3*

View Equation

$$\text{Fe}_2\text{O}_3 (\text{s}) + 3\text{CO} (\text{g}) \rightarrow 2\text{Fe} (\text{s}) + 3\text{CO}_2 (\text{g})$$

View Solutions

How many moles of carbon monoxide (CO) are required to react completely with 1.75 moles of iron (III)-oxide (Fe_2O_3)?

Problems solved: 0

Matching Key Stoichiometry

David A. Ucko

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Matching Key Stoichiometry:

Unveiling the Magic of Words: A Overview of "**Matching Key Stoichiometry**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Matching Key Stoichiometry**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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