

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 Equations

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

Module 8 Stoichiometry Answer Key

B Lingard



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Resources in Education ,1980-06 **Resources in Education** ,1980 *Research in Education* ,1973-12 *Essentials of Chemical Reaction Engineering* H. Scott Fogler,2011 Accompanying DVD ROM contains many realistic interactive simulations **Immuno Systems Biology** Kumar Selvarajoo,2013-10-01 Immuno Systems Biology aims to study the immune system in the more integrated manner on how cells and molecules participate at different system levels to the immune function Through this book Kumar Selvarajoo introduces to physicists chemists computer scientists biologists and immunologists the idea of an integrated approach to the understanding of mammalian immune system Geared towards a researcher with limited immunological and computational analytical experience the book provides a broad overview to the subject and some instruction in basic computational theoretical and experimental approaches The book links complex immunological processes with computational analysis and emphasizes the importance of immunology to the mammalian system The Software Encyclopedia ,1988 Research in Education ,1973 *The Software Catalog* MENU Staff,Menu,1987 *Dissertation Abstracts International* ,1980 *The Chemical Engineer* ,2004 **International Aerospace Abstracts** ,1999 *Books in Print Supplement* ,1977 IEICE Transactions on Electronics ,2001 Electrical & Electronics Abstracts ,1997 **On Cassette** ,1989 *Handbook of Cell Signaling* Ralph A. Bradshaw,Edward A. Dennis,2004 The Handbook of Cell Signaling is a comprehensive work covering all aspects of intracellular signal processing including extra intracellular membrane receptors signal transduction gene expression translation and cellular organotypic signal responses The subject matter has been divided into five main parts each of which is headed by a recognized expert in the field Initiation Extracellular and Membrane Events Transmission Effectors and Cytosolic Events Nuclear Responses Gene Expression and Translation Events in Intracellular Compartments Cell Cell and Cell Matrix Interactions Covered in extensive detail these areas will appeal to a broad cross disciplinary audience interested in the structure biochemistry molecular biology and pathology of cellular effectors Tabular and well illustrated the Handbook will serve as an in depth reference for this complex and evolving field Tabular and well illustrated the Handbook will serve as an in depth reference for this complex and evolving field Contains approximately 470 articles Provides well organized sections on each essential area in signaling Includes discussion on everything from ligand receptor interactions to organ organism responses Extremely user friendly

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are useful for revision and exam practice

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