

12

STOICHIOMETRY

SECTION 12.1 THE ARITHMETIC OF EQUATIONS (pages 353–358)

This section explains how to calculate the amount of reactants required or product formed in a nonchemical process. It teaches you how to interpret chemical equations in terms of interacting moles, representative particles, masses, and gas volume at STP.

► Using Everyday Equations (pages 353–355)

1. How can you determine the quantities of reactants and products in a chemical reaction?

2. Quantity usually means the _____ of a substance expressed in grams or moles.
3. A bookcase is to be built from 3 shelves (Sh), 2 side boards (Sb), 1 top (T), 1 base (B), and 4 legs (L). Write a “balanced equation” for the construction of this bookcase.

► Using Balanced Chemical Equations (page 354)

4. Is the following sentence true or false? Stoichiometry is the calculation of quantities in chemical reactions. _____
5. Calculations using balanced equations are called _____.

► Interpreting Chemical Equations (pages 356–357)

6. From what elements is ammonia produced? How is it used?

7. Circle the letter of the term that tells what kind of information you CANNOT get from a chemical equation.

a. moles

d. volume

b. mass

e. number of particles

c. size of particles

Stoichiometry Section 12 1 The Arithmetic Of Equations Answers

Jerome K. Holmes



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General College Chemistry Charles William Keenan, Donald C. Kleinfelter, Jesse Hermon Wood, 1980 *Maths for Chemistry* Paul Monk, Lindsey J. Munro, 2021 Mathematical skills and concepts lie at the heart of chemistry yet they are the aspect of the subject that many students fear the most Maths for Chemistry recognizes the challenges faced by many students in equipping themselves with the maths skills necessary to gain a full understanding of chemistry Working from foundational principles the book builds the student's confidence by leading them through the subject in a steady progressive way from basic algebra to quantum mathematics Opening with the core mathematics of algebra logarithms and trigonometry the book goes on to cover calculus matrices vectors complex numbers and laboratory mathematics to cover everything that a chemistry student needs With its modular structure the book presents material in short manageable sections to keep the content as accessible and readily digestible as possible Maths for Chemistry is the perfect introduction to the essential mathematical concepts which all chemistry students should master Computers & Electronics, 1985 **Resources in Education**, 1980 *General Chemistry* James E. Brady, Gerard E. Humiston, 1986 The Fifth Edition retains the pedagogical strengths that made the previous editions so popular and has been updated reorganized and streamlined Changes include more accessible introductory chapters with greater stress on the logic of the periodic table earlier introduction of redox reactions greater emphasis on the concept of energy a new section on Lewis structures earlier introduction of the ideal gas law and a new development of thermodynamics Each chapter ends with review questions and problems *Chemistry, an Experimental Science* Chemical Education Material Study, 1963 **The Merck Report**, 1908 **Principles of physical Science**, 1971 **Introduction to General Chemistry** Jerome K. Holmes, 1969 *Class 11-12 Math MCQ (Multiple Choice Questions)* Arshad Iqbal, 2019-05-17 The Class 11 12 Math Multiple Choice Questions MCQ Quiz with Answers PDF College Math MCQ PDF Download Quiz Questions Chapter 1 14 Practice Tests with Answer Key 11th 12th Grade Math Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Class 11 12 Math MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Class 11 12 Math MCQ PDF book helps to practice test questions from exam prep notes The Class 11 12 Math MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Class 11 12 Math Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Application of basic identities double angle identities functions and limits fundamentals of trigonometry matrices and determinants number system partial fractions permutations combinations and probability quadratic equations sequences and series sets functions and groups trigonometric functions and graphs trigonometric identities trigonometric ratios of allied angles tests for college and university revision guide Class 11 12 Math Quiz Questions and Answers PDF free download eBook's sample covers beginner's solved questions textbook's study notes to practice online tests The book Grade 11 12 Math MCQs Chapter

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