

9.1

THE ARITHMETIC OF EQUATIONS

SECTION REVIEW

Objectives

- Calculate the amount of reactants required or product formed in a chemical process.
- Interpret balanced chemical equations in terms of interacting moles, representative particles, masses, and gas volume at STP.

Key Terms

- stoichiometry

Part A Completion

Copy this completion exercise for class. Your understanding of the concepts and terms is clear when you can do this exercise. Blank blocks cover the completed work at home, school, library, or home first.

- The coefficients in a balanced chemical equation indicate _____ 1. _____ the relative number of _____ 2. _____ of reactants and products. All _____ 3. _____ stoichiometric calculations begin with a _____ 4. _____ On a _____ 5. _____ and _____ 6. _____ are conserved in every reaction: mass, volume, _____ 7. _____ and representative particles may not be. _____ 8. _____ In solving stoichiometric problems, conversion factors _____ 9. _____ relating moles of reactants to _____ 10. _____ of products are used. _____ 11. _____ If you assume _____ 12. _____, the equation also tells you about the volume of gas.

Part B True-False

(Quickly mark off the statements as to be always true, AC; sometimes true, ST; or never true, NT.)

- _____ 1. The coefficients in a balanced chemical equation can be used to determine the relative limiting reactants to products.
- _____ 2. The coefficients in a balanced chemical equation tell the relative volumes of reactants and products, expressed in any suitable units of volume.
- _____ 3. To calculate the mass of a molecule in grams, you can use the molar mass and Avogadro's number.

The Arithmetic Of Equations 9 1

K Morrison



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Mathematics for Electrical Technicians John Bird, Antony J.C. May, 2014-01-21 The definition and solution of engineering problems relies on the ability to represent systems and their behaviour in mathematical terms Mathematics for Electrical Technicians 4 5 provides a simple and practical guide to the fundamental mathematical skills essential to technicians and engineers This second edition has been revised and expanded to cover the BTEC Higher Mathematics for Engineers module for Electrical and Electronic Engineering Higher National Certificates and Diplomas It will also meet the needs of first and second year undergraduates studying electrical engineering **Algebra From A To Z - Volume 1** A W

Goodman, 2001-09-04 This book presents a thorough explanation of the notation of summation some unusual material on inequalities an extended treatment of mathematical induction and basic probability theory including the explanation that all gambling systems must fail It also contains a complete treatment of vector algebra including the dot and cross product This is usually reserved for a calculus course but is properly algebra and so belongs in any algebra book Since this book deals with algebra from A to Z it starts at the beginning with the arithmetic of the counting numbers and their extensions i e the negative numbers and the rational numbers However these very elementary items are treated from an advanced point of view The teacher should assign the first three chapters as outside reading using only one day per chapter for classroom discussion The remaining chapters cover all of the usual topics in college algebra but they contain many unusual items not found in the standard college algebra course As an example the circle notation for a composite function is now standard material but this book explains just why that notation is needed The book concludes with a presentation of the Peano Axioms This advanced topic should be available to all mathematics students whether they are first year algebra students or are working for a PhD degree **A-Level Maths Textbook: Year 1 & 2**, 2021-08-27 This huge CGP Textbook is packed with thousands of questions for both years of A Level Maths it s suitable for the Edexcel AQA OCR and OCR MEI courses It s

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moving the sliders and by row reduction compare this with figure 2 2 1

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