

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 indicated in this exercise. Blank blanks are the completed work of others; absent phrases are none.

- The coefficients in a balanced chemical equation indicate _____ 1. _____ the relative number of _____ 2. _____ of reactants and products. All stoichiometric calculations begin with a _____ 3. _____ (molar _____ 4. _____) and _____ 5. _____ are converted in every reaction; moles, volumes, and representative particles may not be.
- In solving stoichiometric problems, conversion factors relating moles of reactants to _____ 6. _____ of products are used.
- If you assume _____ 7. _____, 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.)

- _____ 7. The coefficients in a balanced chemical equation can be used to derive molar ratios relating reactants to products.
- _____ 8. The coefficients in a balanced chemical equation tell the relative volumes of reactants and products, expressed in any suitable units of volume.
- _____ 9. To calculate the mass of a molecule in grams, you can use the molar mass and Avogadro's number.

The Arithmetic Of Equations Answers

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