

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?

You can use the balanced equation.

2. Quantity usually means the amount 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.

$3\text{Sh} + 2\text{Sb} + \text{T} + \text{B} + 4\text{L} = \text{Sh}_3\text{Sb}_2\text{TBL}_4$

► Using Balanced Chemical Equations (page 354)

4. Is the following sentence true or false? Stoichiometry is the calculation of quantities in chemical reactions. true

5. Calculations using balanced equations are called stoichiometric calculations.

► Interpreting Chemical Equations (pages 356–357)

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

Ammonia molecules are composed of nitrogen and hydrogen; it is used as a fertilizer.

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

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TD Snyder



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Embracing the Track of Expression: An Psychological Symphony within **Reading And Study Workbook Chapter 12 Page 145**

In a world consumed by displays and the ceaseless chatter of instant conversation, the melodic beauty and mental symphony created by the written term frequently diminish in to the background, eclipsed by the relentless noise and disturbances that permeate our lives. But, located within the pages of **Reading And Study Workbook Chapter 12 Page 145** an enchanting fictional treasure brimming with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that fascinating masterpiece conducts readers on a psychological trip, well unraveling the concealed tunes and profound influence resonating within each carefully crafted phrase. Within the depths of this touching evaluation, we can investigate the book is central harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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