

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 9 The Arithmetic Of Equations

Thomas O'Connor Sloane



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