

## 12

## STOICHIOMETRY

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

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

**► Using Everyday Equations** (pages 353–354)

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

*You must enter 3 in Question 1 correctly.*

2. Quantity usually means the \_\_\_\_\_ *amount* of a substance expressed in grams or moles.

3. A box-keeper is on the shelf. There is chicken (CH), 2 whole loaves (PL), 1 soup (TC), 1 kaiser (KS), and 4 eggs (E). Write a “balanced equation” for the construction of this box-keeper.

*$2\text{CH} + 2\text{PL} + 1\text{TC} + 1\text{KS} + 4\text{E} = 1\text{Box-keeper}$*

**► Using Balanced Chemical Equations** (page 354)

4. In the following sentence (as in Robert Hooke’s discovery), \_\_\_\_\_ *is* the calculation of quantities in a chemical reaction. \_\_\_\_\_ *is not*

5. Calculations using balanced equations are called \_\_\_\_\_ *stoichiometric calculations*.

**► Interpreting Chemical Equations** (pages 354–357)

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

*Ammonia  $\text{NH}_3$  is a compound 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 |
| <b>c. size of particles</b> |                        |

# Section 12 1 The Arithmetic Of Equations Worksheet Answers

**Michael Brown**



## Section 12 1 The Arithmetic Of Equations Worksheet Answers:

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**Kaufmann/Schwitters' Algebra for College Students** Kay Haralson, 2000      *S.Chand's Mathematics For Class X Term*  
*-II* H.K. Dass, Rama Verma & Bhagwat S. Sharma, S Chand's Mathematics books for Classes IX and X are completely based  
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learning or behavior problems making it the most useful methods text on the market Prided for its unique and comprehensive  
coverage of classroom assessment and methods for the content areas it assists teachers in finding effective practices to  
facilitate instruction of students with learning problems      **Every Math Learner, Grades 6-12** Nanci N. Smith, 2017-02-02  
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,1981      The Software Encyclopedia ,1988

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