

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** or **balancing** or **equation**.

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

3. A bookkeeper is on the fault lines 3 shelves (SF), 2 side boards (SB), 1 top (T), 1 base (B), and 4 legs (L). Write a “balanced equation” for the construction of this bookcase.

$3\text{SF} + 2\text{SB} + 1\text{T} + 1\text{B} + 4\text{L} \rightarrow 1\text{Bookcase}$

► Using Balanced Chemical Equations (page 354)

4. In the following sentence (use an Internet Search engine to do calculation of quantities in chemical reactions), _____ **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 combines with oxygen to produce 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 | |

Section 12 1 The Arithmetic Of Equations Worksheet Answers

**H.K. Dass, Rama Verma & Bhagwat S.
Sharma**



Section 12 1 The Arithmetic Of Equations Worksheet Answers:

Embracing the Beat of Phrase: An Mental Symphony within **Section 12 1 The Arithmetic Of Equations Worksheet Answers**

In a world eaten by monitors and the ceaseless chatter of immediate conversation, the melodic elegance and emotional symphony produced by the published term usually fade into the background, eclipsed by the persistent noise and disruptions that permeate our lives. However, situated within the pages of **Section 12 1 The Arithmetic Of Equations Worksheet Answers** a stunning fictional treasure brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that charming masterpiece conducts visitors on an emotional trip, well unraveling the hidden songs and profound impact resonating within each cautiously crafted phrase. Within the depths of the moving analysis, we can examine the book is main harmonies, analyze their enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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