

Molarity:

- a quantitative description of solution concentration.
- Abbreviated M

$$\text{Molarity} = \frac{\text{moles of solute}}{\text{liters of solution}}$$

Problems: Show all work and circle your final answer.

1. To make a 4.00 M solution, how many moles of solute will be needed if 12.0 liters of solution are required?

$$4.00 \text{ M} = \frac{\text{moles of solute}}{12.0 \text{ L}} \quad \text{moles of solute} = \boxed{48.0 \text{ mol}}$$

2. How many moles of sucrose are dissolved in 250 mL of solution if the solution concentration is 0.150 M?

$$\begin{aligned} ? \text{ L} &= 250 \text{ mL} \times \frac{1 \text{ L}}{1000 \text{ mL}} = 0.25 \text{ L} \\ 0.150 \text{ M} &= \frac{\text{moles of solute}}{0.25 \text{ L}} \quad \text{moles of solute} = \boxed{0.038 \text{ mol}} \end{aligned}$$

3. What is the molarity of a solution of  $\text{HNO}_3$  that contains 12.6 grams  $\text{HNO}_3$  in 1.0 L of solution?

$$\begin{aligned} ? \text{ mol HNO}_3 &= 12.6 \text{ g HNO}_3 \times \frac{1 \text{ mol HNO}_3}{63.0 \text{ g HNO}_3} = 0.200 \text{ mol HNO}_3 \\ \text{M} &= \frac{0.200 \text{ mol HNO}_3}{1.0 \text{ L}} = \boxed{0.200 \text{ M}} \end{aligned}$$

4. How many grams of potassium nitrate are required to prepare 0.250 L of a 0.700 M solution?

$$\begin{aligned} 0.700 \text{ M} &= \frac{\text{moles of solute}}{0.250 \text{ L}} \quad \text{moles of solute} = 0.175 \text{ mol} \\ ? \text{ g KNO}_3 &= 0.175 \text{ mol KNO}_3 \times \frac{101.1 \text{ g KNO}_3}{1 \text{ mol KNO}_3} = \boxed{17.7 \text{ g KNO}_3} \end{aligned}$$

# Molarity Worksheets With Answers

**Jonathan Crowe, Tony Bradshaw**



## **Molarity Worksheets With Answers:**

**I/M&w/Tsts Intro Chem** Victor S Krimsley, Darold E Skerritt, Beverly B Harrison, 1986      **Chemistry for the Biosciences** Jonathan Crowe, Tony Bradshaw, 2021 Chemistry enables our eyes to detect the world around us it determines whether something tastes sweet or sour it helps genetic information pass accurately from one generation to the next Ultimately chemistry powers life itself We don't need to dig very deep to answer the question why do biologists need chemistry Building on the success of the first three editions Chemistry for the Biosciences introduces students to all the chemistry they need to understand the biological world Renowned for its clear and straightforward explanations the book uses everyday examples and analogies throughout to help students get to grips with chemical concepts and presents them in context of biological systems wherever possible so they can see how chemistry relates to their wider studies With topics drawn from organic physical and inorganic chemistry students will encounter a broad range of essential concepts Chemistry for the Biosciences includes many learning features both in print and online to help students grasp these concepts as quickly and thoroughly as possible From the self check questions throughout each chapter to help consolidate learning to the Chemical Toolkits and Maths Tools that help students explore terminology methods and numerical skills that may be unfamiliar the book is written to be a true course companion for students on biological and biomedical science degrees one that will help them not only remember the essentials but really understand them setting students up for success in their later studies      *Merrill Chemistry* Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

## **Molarity Worksheets With Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Molarity Worksheets With Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://staging.conocer.cide.edu/results/publication/default.aspx/massey%20ferguson%20service%20mf%208100%20series%20mf%208110%20mf%208120%20mf.pdf>

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