

Name \_\_\_\_\_

Class \_\_\_\_\_

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## Skills Worksheet

**Concept Review****Section: Concentration and Molarity**

Complete each statement below by choosing a term from the following list.  
Use each term only once.

concentration

moles

solute

solution

liter

parts per million

molality

molarity

ratios

1. \_\_\_\_\_ is the quantity of solute in a specific quantity of solvent or solution. One way of expressing concentration is to use the unit of measure called \_\_\_\_\_; it is the ratio of \_\_\_\_\_ amount (in moles) to \_\_\_\_\_ volume (in liters), or simply \_\_\_\_\_ of solute per L of solution. Table 1 in your textbook lists other concentration units or \_\_\_\_\_, such as \_\_\_\_\_ ( $m = \text{mol solute/kg solvent}$ ) and \_\_\_\_\_ ( $\text{ppm} = \text{mL solute/1 000 000.0 mL solution}$ ).

Solve the following problems and write your answer in the space provided.

2. What is the molarity of a hydrochloric acid solution that has a volume of 1500 mL and contains 441 g of HCl?
3. What is the molarity of a sugar solution that has a volume of 0.500 L and contains 17.1 g of ordinary sugar ( $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ )?

# Concept Review Section Concentration And Molarity Answers

**M Walker**



## Concept Review Section Concentration And Molarity Answers:

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the chemical concepts which are the core of the book as well as a more thoroughly integrated forensic theme updated features and an expanded media supplements package      **Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998      **Allied Health Professions Admissions Test** Aftab Hassan, Betz Guide, Aftab S Hassan, Ph. D., Williams & Wilkins Lippencott, 1995 This guide is aimed at students interested in allied health careers and covers science knowledge verbal and quantitative ability and reading comprehension based on the methods of active learning The text guides students through a system of self managed self paced study related to the AHAT Each section offers AHPAT style practice questions and there is also a model examination with answers and explanations The appendix includes a glossary allied health careers

**PCAT** Aftab S. Hassan, Williams & Wilkins Review, Betz, 1998 Based on Guidelines from the American Association of Colleges of Pharmacy this volume includes a skills based review of the latest content and a full length practice exam with solutions Readers will acquire the skills and the secrets that will lead to improved success including a 10 point prescription for conquering the exam      *Prentice Hall Chemistry*, 2000      *Iterations, II* Russell Batt, John W. Moore, 1987      *Pharmacy Review*, 1989      *Chemistry* Steven S. Zumdahl, Susan A. Zumdahl, 2000 Zumdahl s conceptual approach to problem solving early and thorough treatment of reactions and integration of descriptive chemistry and chemical principles throughout are key elements to the success of this bestseller By encouraging students to understand qualitative concepts before considering quantitative problems Chemistry helps students build a solid understanding of topics and avoid common misconceptions The text also includes new Chemical Impact boxes that present everyday applications of chemistry plus over 200 redesigned illustrations with greater clarity and emphasis on molecular level illustrations      **Elements of General and Biological**

**Chemistry** John R. Holum, 1987 This book is a shorter version of the third edition of Fundamentals of General Organic and Biological Chemistry 1986 It incorporates the recommendations of the Task Force on Chemical Education for Health Professions and meets the needs for a basic text in a one term course in chemistry for students aiming for careers in professional health care fields      **Analytical Chemistry** Gary D. Christian, 1986-01-17 This is a practical approach to quantitative analytical chemistry covering all areas of modern quantitative analysis taught in a standard first course in quantitative analysis Includes experiments in each method This edition includes coverage of electronic balance and propagation of error Equilibria are introduced in terms of Gibbs free energy buffers and calculations are presented in terms of photon acceptor donor Experiments are now all at the back of the book SI units are emphasized throughout Numerous applications to the life sciences      *Chemistry, Student Study Guide* James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane  $\text{CH}_4$  from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple

methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement      **Chemistry** John McMurry, Robert C. Fay, 2001 A colorful pedagogically enhanced standard textbook for the introductory course It begins with atomic structure proceeds next to bonding and molecules then to bulk physical properties of substances and ends with a study of chemical properties Each chapter concludes with a brief description of an interesting application or extension of the chapter subject a summary a list of key words and a large number of problems Many student oriented supplements are available Annotation copyright by Book News Inc Portland OR      **Chemistry Subject Test (advanced)** Robert Boxer, 1984      *MCAT Comprehensive Review* , 2000

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