

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

## Gas Laws Worksheet

$$\text{atm} = 760.0 \text{ mm Hg} = 101.3 \text{ kPa} = 760.0 \text{ torr}$$

### Boyle's Law Problems:

$$P_1 V_1 = P_2 V_2$$

1. If 22.5 L of nitrogen at 748 mm Hg are compressed to 725 mm Hg at constant temperature. What is the new volume?

$$(748 \text{ mm Hg})(22.5 \text{ L}) = (725 \text{ mm Hg}) V_2$$

$$V_2 = \frac{(748 \text{ mm Hg})(22.5 \text{ L})}{(725 \text{ mm Hg})}$$

$$V_2 = 23.2 \text{ L}$$

2. A gas with a volume of 4.0L at a pressure of 205kPa is allowed to expand to a volume of 12.0L. What is the pressure in the container if the temperature remains constant?

$$(4.0 \text{ L})(205 \text{ kPa}) = (12.0 \text{ L}) P_2$$

$$P_2 = \frac{(4.0 \text{ L})(205 \text{ kPa})}{12.0 \text{ L}}$$

$$P_2 = 68.3 \text{ kPa}$$

3. What pressure is required to compress 196.0 liters of air at 1.00 atmosphere into a cylinder whose volume is 26.0 liters?

$$(196.0 \text{ L})(1.00 \text{ atm}) = (26.0 \text{ L}) P_2$$

$$P_2 = \frac{(196.0 \text{ L})(1.00 \text{ atm})}{26.0 \text{ L}}$$

$$P_2 = 7.54 \text{ atm}$$

4. A 40.0 L tank of ammonia has a pressure of 12.7 kPa. Calculate the volume of the ammonia if its pressure is changed to 8.4 kPa while its temperature remains constant.

$$(40.0 \text{ L})(12.7 \text{ kPa}) = (8.4 \text{ kPa}) V_2$$

$$V_2 = \frac{(40.0 \text{ L})(12.7 \text{ kPa})}{8.4 \text{ kPa}}$$

$$V_2 = 60.5 \text{ L}$$

# Gas Laws Practice Sheet Answer Key

**Ensheng Dong**



## Gas Laws Practice Sheet Answer Key:

*AP Chemistry For Dummies* Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag, 2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam

*Accounting in Law Practice* Willard J. Graham, Wilber G. Katz, 1932

*Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1979

*The Role of Language in Content Pedagogy* Lay Hoon Seah, Rita Elaine Silver, Mark Charles Baildon, 2022-11-01 This book explores the importance of language in content learning It focuses on teachers roles knowledge and understanding of language in school contexts including academic language and disciplinary languages to support students It examines teachers language related knowledge base for content teaching which include teachers knowledge of and about language knowledge of their students and their pedagogical knowledge This book also explores how teachers knowledge of language students and content are linked as part of a larger pedagogical content knowledge which includes knowledge of the role of language in content learning As well it further considers literacy and literacies as part of this examination of teachers knowledge of language

*Golden State Examination*, 1992

**Financial Valuation Workbook** James R. Hitchner, 2024-12-05 A complete toolkit for financial valuers to help keep their engagements on track and on time In the newly revised fifth edition of Financial

Valuation Workbook Step by Step Exercises and Tests to Help You Master Financial Valuation veteran valuation expert James R Hitchner delivers a comprehensive collection of checklists reports information request templates and other tools designed to assist valuation practitioners in the organization of their engagements In the book you ll find intuitively organized materials that cut the learning curve for newly minted valuation professionals in half The tools contained within follow the standard valuation engagement format and track the intricacies of the typical valuation assignment Over 300 exercises organized by major subject are included to assist with the learning process You ll also find Updated sections on S corps discounts for lack of marketability and cost of capital resources and applications Report writing aids discussions of individual vs corporate tax rates and guides for engaging in depositions and trials as an expert witness Materials designed to assist with the difference between capitalized cash flow and discounted cash flow methods Perfect for business valuation analysts and expert witnesses Certified Public Accountants and appraisers the Financial Valuation Workbook will also be an indispensable resource for attorneys working with financial valuation experts as they aim to keep their engagements on track on time and on budget

**Merrill Chemistry** Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 Gas World ,1915 **SAT II Physics** Sparknotes Editors,Sparknotes,2002-07 *The Accountant* ,1910 Domestic Engineering ,1924 *Books and Pamphlets, Including Serials and Contributions to Periodicals* Library of Congress. Copyright Office,1977-07 Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office,1928 Course Examinations for the General College, University of Minnesota, Year 1940-41 University of Minnesota. General College,1941 *Federal Register* ,1991-05-08 **Power Plant Engineering** ,1920 **The Software Encyclopedia** ,1988 *The Engineer* ,1906 The Prentice-Hall Federal Tax Service ,1922 **Surveyor and Municipal and County Engineer** ,1906

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