

# ChemCom 1A.1 DIMENSIONAL ANALYSIS PROBLEMS

DIRECTIONS: Solve each problem using dimensional analysis. Every number must have a unit. Conversion factors are given below

## Conversions Factors

- 1 hr = 60 min
- 7 days = 1 week
- 24 hrs = 1 day
- 264.2 gal = 1 cubic meter
- 1 mi = 5,280 ft
- 20 drops = 1 mL
- 365 days = 1 year
- 1 L = 1000 mL
- 0.625 mi = 1.00 km
- 1 L = 1000 cc

1.) How many miles will a person run during a 10 kilometer race?

$$\frac{10.0 \text{ km}}{1 \text{ km}} \times \frac{0.625 \text{ mi}}{1 \text{ km}} = 6.25 \text{ miles}$$

2.) The moon is 250,000 miles away. How many feet is it from earth?

$$\frac{250,000 \text{ mi}}{1 \text{ mi}} \times \frac{5280 \text{ ft}}{1 \text{ mi}} = 1.32 \times 10^6 \text{ ft}$$

3.) A family pool holds 10,000 gallons of water. How many cubic meters is this?

$$\frac{10,000 \text{ gal}}{264.2 \text{ gal}} \times \frac{1 \text{ m}^3}{1 \text{ m}^3} = 40 \text{ m}^3$$

4.) The average student is in class 330 minutes/day. How many hours/day is this? How many seconds is this?

$$\frac{330 \text{ min}}{60 \text{ min}} \times \frac{1 \text{ hr}}{1 \text{ hr}} = 5.5 \text{ hr}$$

$$\frac{330 \text{ min}}{1 \text{ min}} \times \frac{60 \text{ s}}{1 \text{ min}} = 2.0 \times 10^4 \text{ s}$$

5) How many seconds are there in 16 years?

$$\frac{16 \text{ yr}}{1 \text{ yr}} \times \frac{365 \text{ da}}{1 \text{ da}} \times \frac{24 \text{ hr}}{1 \text{ hr}} \times \frac{3600 \text{ s}}{1 \text{ hr}} = 5.0 \times 10^5 \text{ s}$$

6) Lake Erie holds  $1.3 \times 10^{11}$  gallons of water. How many liters is this?

$$\frac{1.3 \times 10^{11} \text{ gal}}{264.2 \text{ gal}} \times \frac{1 \text{ m}^3}{1 \text{ m}^3} \times \frac{1000 \text{ L}}{1 \text{ m}^3} = 4.9 \times 10^8 \text{ L}$$

7) Pepsi puts 35.5 mL of pop in a can. How many drops is this? How many liters is this?

$$\frac{35.5 \text{ mL}}{20 \text{ drops}} \times \frac{1 \text{ mL}}{1 \text{ mL}} = 7.1 \times 10^2 \text{ drops}$$

8) Columbus uses  $1.2 \times 10^9$  gallons of water /day . How many gallons per second must be pumped from the lake every second to supply the city?

$$\frac{1.2 \times 10^9 \text{ gal}}{1 \text{ da}} \times \frac{1 \text{ da}}{24 \text{ hr}} \times \frac{1 \text{ hr}}{3600 \text{ s}} = 1.4 \times 10^4 \text{ gal/s}$$

# Dimensional Analysis Practice With Answer Key

**Amie D. Brooks, Cynthia Sanoski, Emily  
R. Hajjar, Brian R. Overholser**



## **Dimensional Analysis Practice With Answer Key:**

The Science Teacher's Toolbox Tara C. Dale, Mandi S. White, 2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Science Teacher's Toolbox is a classroom tested resource offering hundreds of accessible student friendly lessons and strategies that can be implemented in a variety of educational settings Concise chapters fully explain the research basis necessary technology Next Generation Science Standards correlation and implementation of each lesson and strategy Favoring a hands on approach this book provides step by step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately Lessons cover topics such as setting up labs conducting experiments using graphs analyzing data writing lab reports incorporating technology assessing student learning teaching all ability students and much more This book enables science teachers to Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators The Science Teacher's Toolbox Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary middle school and high school science educators as well those in teacher education programs and staff development professionals

**Calculation of Drug Dosages - E-Book** Sheila J. Ogden, Linda Fluharty, 2013-12-27 Master the critical skills necessary to competently and confidently calculate drug dosages using Calculation of Drug Dosages Written by Sheila J Ogden MSN RN and Linda Fluharty RNC MSN this updated 9th Edition provides you with an extensive review of essential math concepts before introducing and clearly explaining the ratio and proportion formula and dimensional analysis methods of drug calculation The book's popular worktext format builds on concepts as you go and reinforces what you learn with over 1 800 practice problems Identify your strengths and weaknesses with an extensive math review covering the basic math skills essential for accurate calculation of drug dosages Use chapter worksheets to practice solving realistic problems Assess your understanding of chapter content using post tests at the end of each chapter Retain content more easily and build on your prior knowledge through a logical organization Get additional practice and accurately gauge your overall understanding with a comprehensive post test at the end of the book Stay focused with learning objectives that explain what you should accomplish upon completion of each chapter Know the latest drugs and technology used in the market with updated drug labels and equipment photos Study at your own pace with 25 flash cards now on Evolve containing abbreviations formulas and conversions from the book Check your work and see your mistakes with a detailed step by step

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The Physics, Clinical Measurement, and Equipment of Anaesthetic Practice Patrick Magee, Mark Tooley, 2005 A good knowledge of physics measurement and equipment is essential for practicing anaesthetists The subject does however present considerable problems for many few of whom have any background in physics This book explains the physical principles and applications of physics in anaesthesia covering the statistical methods that anaesthetists are required to understand The book includes sections on equipment and safety in anaesthesia and electrical safety The book starts with mathematics statistics and a basic physics background not only to enhance the understanding for what follows in the book but also because these basic sciences are fundamental to many other aspects of medical science Areas which trainees find particularly troublesome such as electricity and electrical safety are discussed in detail The book will also be of interest to trainee anaesthetics operating department assistants hospital based biomedical engineers and medical physicists manufacturers representatives and those involved in the manufacture marketing and use of anaesthetic equipment

**Unsaturated Soil Mechanics in Engineering Practice** Delwyn G. Fredlund, Hendry Rahardjo, Murray D. Fredlund, 2012-07-24 The definitive guide to unsaturated soil from the world s experts on the subject This book builds upon and substantially updates Fredlund and Rahardjo s publication Soil Mechanics for Unsaturated Soils the current standard in the field of unsaturated soils It provides readers with more thorough coverage of the state of the art of unsaturated soil behavior and better reflects the manner in which practical unsaturated soil engineering problems are solved Retaining the fundamental physics of unsaturated soil behavior presented in the earlier book this new publication places greater emphasis on the importance of the soil water characteristic curve in solving practical engineering problems as well as the quantification of thermal and moisture boundary conditions based on the use of weather data Topics covered include Theory to Practice of Unsaturated Soil Mechanics Nature and Phase Properties of Unsaturated Soil State Variables for Unsaturated Soils Measurement and Estimation of State Variables Soil Water Characteristic Curves for Unsaturated Soils Ground Surface Moisture Flux Boundary Conditions Theory of Water Flow through Unsaturated Soils Solving Saturated Unsaturated Water Flow Problems Air Flow through Unsaturated Soils Heat Flow Analysis for Unsaturated Soils Shear

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*Chemistry* Neil D. Jespersen, Alison Hyslop, 2021-11-02 Chemistry The Molecular Nature of Matter 8th Edition continues to focus on the intimate relationship that exists between structure at the atomic molecular level and the observable macroscopic properties of matter Key revisions in this edition focus on three areas The deliberate inclusion of more updated real world examples that relate common real world student experiences to the science of chemistry Simultaneously examples and questions have been updated to align them with career concepts relevant to the environmental engineering biological pharmaceutical and medical sciences Providing students with transferable skills with a focus on integrating metacognition and three dimensional learning into the text When students know what they know they are better able to learn and incorporate the material Providing a total solution through New WileyPLUS by fully integrating the enhanced etext with online assessment answer specific responses and additional practice resources The 8th edition continues to emphasize the importance of applying concepts to problem solving to achieve high level learning and increase retention of chemistry knowledge Problems are arranged in an intuitive confidence building order

*Essentials for Nursing Practice - E-Book* Patricia A. Potter, Anne G. Perry, Patricia A. Stockert, Amy Hall, 2014-02-28 Approx 1218 pages Approx 1218 pages NEW QSEN scenarios present a clinical situation followed by an open ended question designed to help you understand and apply these core competencies NEW Chapter on professional nursing includes information on QSEN prioritization delegation and professional levels NEW Completely revised review questions contain a strong mix of clinical thinking and application level questions NEW Content on the impact of exercise covers its influence on disease reduction compassion fatigue lateral violence cyber bullying social media implications caregiver strain and safe patient handling NEW Expanded use of Evidence Based Practice boxes include a PICO question summary of the results of a research study and a description of how the study has affected nursing practice in every chapter NEW Patient Centered Care boxes address racial and ethnic diversity along with the cultural differences that impact socioeconomic status values geography and religion These will related to the chapter case studies when possible

**Fluid Mechanics and Hydraulics** Vedat Batu, 2024-05-27 Fluid Mechanics and Hydraulics Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them

without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics

**NAPLEX 2016 Strategies, Practice, and Review with 2 Practice Tests** Amie D. Brooks,Cynthia Sanoski,Emily R. Hajjar,Brian R. Overholser,2016-03-29 Kaplan s NAPLEX 2016 Strategies Practice and Review with 2 Practice Tests is a step by step guide to scoring higher on the North American Pharmacist Licensure Examination Features NEW Chapters on renal disorders hepatic disorders transplant immunosuppression and preventive medicine NEW 50 percent more end of chapter review questions to assess your content knowledge 200 comprehensive tables summarizing must know drugs at a glance including the 200 most prescribed drugs 2 full length practice tests Online practice test that simulates the exam experience and actively tracks your areas of strength and weakness Robust calculations section with 30 practice problems and step by step math solutions Organized streamlined coverage of each NAPLEX subject area Suggested study times for each NAPLEX topic to help calibrate your study plan

*NAPLEX 2017 Strategies, Practice & Review with 2 Practice Tests* Amie D. Brooks,Cynthia Sanoski,Emily R. Hajjar,Brian R. Overholser,2017-01-03 Kaplan s NAPLEX Review is a step by step guide to scoring higher on the North American Pharmacist Licensure Examination This fully updated book provides Kaplan s proven test taking strategies as well as expert review and guidance as you prepare for the exam

**Review Guide for RN Pre-Entrance Exam** National League for Nursing,National League for Nursing. Testing Division,2009-09-29 One CD ROM disc in pocket

**Gray Morris's Calculate with Confidence, Canadian Edition - E-Book** Tania N Killian,2021-02-13 NEW Next Generation NCLEX RN exam style case studies on the Evolve website provide drug calculation practice for the Next Generation NCLEX Examination NEW Increased number of Clinical Reasoning exercises builds students critical thinking skills with a focus on preventing medication errors NEW Thoroughly updated content includes the latest Health Canada approved medications current drug labels the latest research Canadian statistics commonly used abbreviations and recommended practices related to medication errors and their prevention NEW A Z medication index references the page numbers where drug labels can be found NEW Tips for Clinical Practice from the text are now available on Evolve in printable easy reference format

*Developing Solid Oral Dosage Forms* Yihong Qiu,Yisheng Chen,Geoff G.Z. Zhang,Lirong Liu,William Porter,2009-03-10 Developing Solid Oral Dosage Forms is intended for pharmaceutical professionals engaged in research and development of oral dosage forms It covers essential principles of physical pharmacy biopharmaceutics and industrial pharmacy as well as various aspects of state of the art techniques and approaches in pharmaceutical sciences and technologies along with examples and or case studies in product development The objective of this book is to offer updated or current knowledge and skills required for rational oral product design and development The specific goals are to provide readers with Basics of modern theories of physical pharmacy biopharmaceutics and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage

forms Tools and approaches of preformulation investigation formulation process design characterization and scale up in pharmaceutical sciences and technologies New developments challenges trends opportunities intellectual property issues and regulations in solid product development The first book ever that provides comprehensive and in depth coverage of what s required for developing high quality pharmaceutical products to meet international standards It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market including the most updated science and technologies practice applications regulation intellectual property protection and new development trends with case studies in every chapter A strong team of more than 50 well established authors co authors of diverse background knowledge skills and experience from industry academia and regulatory agencies Paramedic Mithriel Salmon,David Pomerantz,2008-01-30 This work teaches the basic principles of mathematics and applies them to cases that paramedics face in the field Chapters cover maths rules and principles ratios proportions and conversion factors fractions decimals and percentages Practice problems are scattered throughout **Fundamentals of Nursing - E-Book** Patricia A. Potter,Anne Griffin Perry,Patricia Stockert,Amy Hall,2016-02-02 It s your complete guide to nursing from basic concepts to essential skills Fundamentals of Nursing 9th Edition prepares you to succeed as a nurse by providing a solid foundation in critical thinking evidence based practice nursing theory and safe clinical care in all settings With illustrated step by step guidelines this book makes it easy to learn important skills and procedures Care plans are presented within a nursing process framework and case studies show how to apply concepts to nursing practice From an expert author team led by Patricia Potter and Anne Griffin Perry this bestselling nursing textbook helps you develop the understanding and clinical reasoning you need to provide excellent patient care 51 skills demonstrations provide illustrated step by step instructions for safe nursing care and include rationales for each step 29 procedural guidelines provide streamlined step by step instructions for performing basic skills UNIQUE Critical Thinking Models in each clinical chapter show how to apply the nursing process and critical thinking to achieve successful clinical outcomes Evidence Based Practice chapter shows how nursing research helps in determining best practices UNIQUE Caring for the Cancer Survivor chapter prepares nurses to care for cancer patients who may still face physical and emotional issues Case studies include unique clinical application questions and exercises allowing you to practice using care plans and concept maps The 5 step nursing process provides a consistent framework for care and is demonstrated in more than 20 care plans 15 review questions in every chapter test your retention of key concepts with answers available in the book and on the Evolve companion website Practical study tools on Evolve include video clips of skills skills checklists printable key points a fluid electrolytes tutorial a concept map creator an audio glossary and more UNIQUE Clear streamlined writing style makes complex material more approachable More than 20 concept maps show care planning for clients with multiple nursing diagnoses Key points and key terms in each chapter summarize important content for more efficient review and study Unexpected Outcomes and Related Interventions for each

skill alert you to potential problems and appropriate nursing actions Delegation coverage clarifies which tasks can and cannot be delegated A glossary provides quick access to definitions for all key terms **Calculate with Confidence**

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**Barron's Science 360: A Complete Study Guide to Chemistry with Online Practice** Barron's Educational Series, Mark Kernion, Joseph A. Mascetta, 2021-09-07 provides a complete guide to the fundamentals of chemistry Page 4 of cover

**Conquering the Physics GRE** Yoni Kahn, Adam Anderson, 2018-03-01 The Physics GRE plays a significant role in deciding admissions to nearly all US physics Ph D programs yet few exam prep books focus on the test's actual content and unique structure Recognized as one of the best student resources available this tailored guide has been thoroughly updated for the current Physics GRE It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test review their preparedness and identify areas in which further study is needed Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology this self contained reference guide will help students achieve their best score

**Washington and Leaver's Principles and Practice of**



**Radiation Therapy - E-BOOK** Charles M. Washington, Megan Trad, 2025-01-31 Selected for 2025 Doody's Core Titles in Radiologic Technology Gain a meaningful foundation in radiation therapy with the only text that's written by radiation therapists With its problem based approach Washington and Leaver's Principles and Practice of Radiation Therapy Sixth Edition helps you truly understand cancer management improve clinical techniques and apply complex concepts to treatment planning and delivery Plus with new artwork and up to date content that spans chemotherapy techniques radiation safety post image manipulation techniques and more this sixth edition gives you all the tools you need to succeed in your coursework and beyond NEW Considerations explore how the radiation therapist role has changed due to the pandemic the addition of remote work outside of administering treatment and equipment changes NEW Information enhances coverage of proton arc therapy PAT and artificial intelligence AI UPDATED Expanded information on treatment setups for simulation procedures offers additional guidance NEW Updated artwork throughout reflects modern radiation therapy practice Comprehensive radiation therapy coverage includes a clear introduction and overview plus complete information on physics simulation and treatment planning Chapter objectives key terms outlines and summaries in each chapter help you organize information and ensure you understand what is most important End of chapter questions and questions to ponder provide opportunity for review and greater challenge Bolded and defined key terms are highlighted at first mention in the text Spotlight boxes highlight essential concepts and important information as they appear in the chapters Considerations about how the role changed because of pandemic addition of remote work outside of administering treatment changes to equipment Updating MRI Operational Issues Course Updated Management for Radiation Therapists *Chemistry: 1001 Practice Problems For Dummies (+ Free Online Practice)* Heather Hattori, Richard H. Langley, 2022-05-10 Practice your way to a better grade in your Chemistry class Chemistry 1001 Practice Problems For Dummies gives you 1 001 opportunities to practice solving problems on all the topics covered in your chemistry class in the book and online Get extra practice with tricky subjects solidify what you've already learned and get in depth walk throughs for every problem with this useful book These practice problems and detailed answer explanations will catalyze the reactions in your brain no matter what your skill level Thanks to Dummies you have a resource to help you put key concepts into practice Work through multiple choice practice problems on all Chemistry topics covered in class Step through detailed solutions to build your understanding Access practice questions online to study anywhere any time Improve your grade and up your study game with practice practice practice The material presented in Chemistry 1001 Practice Problems For Dummies is an excellent resource for students as well as parents and tutors looking to help supplement classroom instruction Chemistry 1001 Practice Problems For Dummies 9781119883531 was previously published as 1 001 Chemistry Practice Problems For Dummies 9781118549322 While this version features a new Dummies cover and design the content is the same as the prior release and should not be considered a new or updated product **Advanced Physics** Jonathan Allday, Steve Adams, Eileen Ramsden, Ray

Barker, Darrel Barsby, Rob Commons, Gez Rizzo, Michala Swales, Ian Wood, J F Rounce, T L Lowe, Joan Sybil Chambers, D J Crawshaw, Brian Jefferson, David Bowles, Eddie Mullan, Garry Wiseman, John Rayneau, Mike Heylings, Rob Wagner, Steve Cavill, Tony Beadsworth, C P Rourke, Mark Gaulter, Brian Gaulter, 2020-10-08 Written by members of the Editorial Board of the Institute of Physics Advanced Physics makes A level physics accessible to all students with Maths boxes throughout to support concept development Questions give opportunities to practise recall and analytical skills and there are high quality diagrams and full colour illustrations throughout

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