

## Dimensional Analysis Practice Worksheet Solutions

Complete this and place it in your portfolio after section 2-2. I will email the solutions later so that you can check your work (make sure you are showing the work the same way you see it in the solutions, using dimensional analysis). It is important that you practice and learn to use dimensional analysis (multiplying by unit fractions) appropriately. Make sure you get help if you are still having difficulties with this topic. Use my office hours or the math tutors in the Student Learning Center in the library. You do not have to write sentences on this practice worksheet. You do need to show all of the units and use  $\approx$  for approximations.

Do the following conversions using dimensional analysis using the conversion factors on page 74 of your text. You should be doing these all in one computation (even if you have to use more than one unit fraction), not several computations. I have done #1 as example.

1. 5400 inches to miles

$$5400 \cancel{\text{in.}} \times \frac{1 \cancel{\text{ft}}}{12 \cancel{\text{in.}}} \times \frac{1 \text{ mi}}{5280 \cancel{\text{ft}}} = \frac{5400}{63360} \text{ mi} \\ \approx 0.085 \text{ mi}$$

2. 13 weeks to seconds

$$13 \cancel{\text{ weeks}} \times \frac{7 \cancel{\text{ days}}}{1 \cancel{\text{ week}}} \times \frac{24 \cancel{\text{ hrs}}}{1 \cancel{\text{ day}}} \times \frac{60 \cancel{\text{ min}}}{1 \cancel{\text{ hr}}} \times \frac{60 \text{ sec}}{1 \cancel{\text{ min}}} = 7,862,400 \text{ sec}$$

3. 54 yards to mm

$$54 \cancel{\text{ yards}} \times \frac{3 \cancel{\text{ feet}}}{1 \cancel{\text{ yd}}} \times \frac{1 \cancel{\text{ m}}}{3.28 \cancel{\text{ ft}}} \times \frac{1000 \text{ mm}}{1 \cancel{\text{ m}}} = \frac{162000}{3.28} \text{ mm} \\ \approx 49,390.24 \text{ mm}$$

4.  $36 \frac{\text{cm}}{\text{sec}}$  to mph

$$\frac{36 \cancel{\text{ cm}}}{1 \cancel{\text{ sec}}} \times \frac{60 \cancel{\text{ sec}}}{1 \text{ hr}} \times \frac{1 \cancel{\text{ m}}}{1000 \cancel{\text{ cm}}} \times \frac{3.28 \cancel{\text{ ft}}}{1 \cancel{\text{ m}}} \times \frac{1 \text{ mi}}{5280 \cancel{\text{ ft}}} = \frac{7084.8 \text{ mi}}{5280000 \text{ hr}} \\ \approx 0.00134 \frac{\text{mi}}{\text{hr}}$$

# Dimensional Analysis Practice Problems Answer Key

**Sheila J. Ogden, Linda Fluharty**



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

**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 answer key Tap into a new chapter on obstetric dosages that provides you with practice problems using medications unique to this important nursing subspecialty Use alert boxes that call attention to information crucial to math calculation and patient safety Stay current with new content on Intake and Output I O Reduce medication errors and increase patient safety via updated guidelines for The Joint Commission and Institute for Safe Medication Practice Recognize the implications of drug accuracy with more drug labels added to critical care practice problems Access Evolve online resources where you'll see 5 10 new practice problems related to each chapter and the new updated *Drug Calculations Companion Version 4* featuring an interactive student tutorial that includes an extensive menu of various topic areas within drug calculations such as oral parenteral pediatric and intravenous calculations to name a few And over 600 practice problems cover ratio proportion formula and dimensional analysis methods

**Study Guide for Pharmacology - E-Book** Mary B. Winton, Linda E. McCuiston, Kathleen Vuljoin DiMaggio, Jennifer J. Yeager, 2025-04-16 Reinforce your understanding of nursing pharmacology and patient centered care for NGN success and medication safety Corresponding to the chapters in McCuiston's *Pharmacology A Patient Centered Nursing Process Approach 12th Edition* this practical study guide provides hundreds of exercises questions drug calculation problems and case studies to help you review and apply pharmacology and drug calculation concepts and content The new edition features Next Generation NCLEX Examination NGN style case studies to prepare you for the latest NCLEX Exam With this practical study guide you will apply your knowledge of pharmacology to clinical practice enhance your decision making abilities and develop your clinical judgment skills for NGN success and safe

medication practice UPDATED Content matches the updates in the 12th edition of the McCuistion textbook Each chapter features helpful learning aids including a Study Questions section fill in the blank matching true false an NCLEX Review Questions section and a Case Studies section which includes traditional case studies as well as Next Generation NCLEX Exam NGN style case studies Authentic and current sample drug labels throughout mirror true to life practice in working with drug information Focus on safety includes a special icon that calls attention to questions related to the AACN Essentials priority of safe patient care Answers for all exercises are provided at the back of the book to facilitate self study with detailed rationales included for all application level questions and case study questions A drug calculation review chapter follows the outline of the corresponding textbook chapter offering you the opportunity to test your knowledge and skill in drug dosage calculation

Clinical Calculations Made Easy Gloria P. Craig, 2001 Now in vibrant full color this restructured edition helps students understand all aspects of medication problems and avoid the stumbling blocks of dosage calculation The text is organized in a straightforward manner using a simple to complex approach and focusing on problem solving throughout The Unit Path unique to this book shows students how to solve problems by simplifying the process and reducing the chance of errors Pedagogy includes numerous exercises and actual drug labels throughout as well as tear out tests at the end of each chapter for faculty evaluation

**Gray Morris's Calculate with Confidence, Canadian Edition - E-Book** Tania N. Killian, 2021-02-13 Learn to calculate dosages accurately and administer drugs safely Gray Morris s Calculate with Confidence Second Canadian Edition uses a clear step by step approach to make drug dosage calculations easy More than 2 000 practice questions help you review basic math and then master the three standard methods of dosage calculation ratio and proportion formula and dimensional analysis With the increasing responsibility of the nurse in mind emphasis is placed on critical thinking and clinical reasoning in preventing medication errors Reflecting current practice in Canadian health care this book also provides excellent preparation for Canadian licensure exams SI measurement units and generic Canadian drug names are included throughout the text Practice problems and real world examples help students master correct dosage calculations and safe medication administration with rationales included in practice problem answers to enhance the understanding of principles Tips for Clinical Practice boxes summarize information critical to math calculation and patient safety Safety Alert boxes highlight common medication errors and identify actions that must be taken to avoid calculation errors Chapter Review problems test student knowledge of all major topics presented in the chapter Pre Test review includes practice problems to help students assess their basic math skills and identify their strengths and weaknesses covering fractions decimals percentages and ratio and proportion Post Test in Unit One allows students to assess and evaluate their understanding after completing the chapters on basic math Comprehensive Post Test at the end of the book covers dosage calculations and conversions using real life drug labels and situations NCLEX exam style questions on Evolve help students prepare for the type of questions seen on the NCLEX RN Examination NEW Next Generation NCLEX RN exam style case

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*Super Course for the MCAT* Stefan Bosworth,1992-03 This brand new addition to Arco s acclaimed SuperCourse series is certain to set a new high standard for quality It offers the comprehensive MCAT preparation including in depth subject reviews as well as full length sample exams and in depth preparation for the new required essay section

**Chemistry** Jason Overby,Raymond Chang,2024 The fifteenth edition continues a long tradition of providing a firm foundation in the concepts of chemical principles while instilling an appreciation of the important role chemistry plays in our daily lives We believe that it is our responsibility to assist both instructors and students in their pursuit of this goal by presenting a broad range of chemical topics in a logical format At all times we strive to balance theory and application and to illustrate principles with applicable examples whenever possible

Practice for the Army Tests Arco Publishing Company,1951

**Understanding Chemistry** Fred M. Dewey,1994

**Calculation of Drug Dosages** Sheila J. Ogden,2003 This popular dosage calculation work text helps students master the critical skills necessary to competently and confidently calculate drug dosages Innovative and practical it includes information on the ratio and proportion formula and dimensional analysis methods of drug calculation and numerous practice problems to accompany these methods Ideal for students who need an extensive math review in addition to drug calculations content this new edition features a more logical organization a new chapter addressing medication administration to critically ill patients and more practice problems on calculations for pediatric patients

*Pharmaceutical Calculations for the Pharmacy Technician* Barbara E. Lacher,2008 Intended for use in an introductory pharmacy technician calculations course this unique book addresses not only calculations that technicians will encounter in retail but also those necessary for compounding IV industry and areas where a pharmacy technician might be called upon more frequently because of the shortage of pharmacy professionals This text utilizes a casual reader friendly writing style and an easy to understand ratio proportion method of problem solving The latest addition to the new LWW Pharmacy Technician Education Series this comprehensive text allows student to quickly master calculations form the most basic to the most complex

**Addison-Wesley Chemistry** ,1990 *Prentice Hall Chemistry* ,2000 Teaching Science for Understanding James Joseph Gallagher,2007 Offers middle and high school science teachers practical advice on how they can teach their students key concepts while building their understanding of the subject through various levels of learning activities

*Study Guide for Chemistry, Third Edition [by] Steven S. Zumdahl* Paul B. Kelter,1993 *Foundations of*

*College Chemistry* Morris Hein, 1991 Features strong problem solving and carefully constructed problem sets Chemistry

George Tyler Miller, 1987 **Workbook with Lab Exercises to Accompany Principles of Radiographic Imaging, an**

**Art and a Science** William F. Finney, 1996 **Arco Arithmetic Questions and Answers Review** David R. Turner, 1973

*The Software Encyclopedia 2001*, 2001 **Radcliff & Ogden's Calculation of Drug Dosages** Sheila J. Ogden, 1999

This popular dosage calculation book helps the student master the critical skills necessary to competently and confidently calculate drug dosages. The text features an extensive review of mathematics and employs the three most common methods of calculation: ratio and proportion formula and dimensional analysis. A full color design throughout highlights more than 180 drug labels. The new edition includes a FREE CD ROM with drug calculation problems as well as new chapters on automated medication dispensation systems and dimensional analysis. Utilizes a full color design and interesting design elements throughout to provide an attractive visually stimulating presentation. Features numerous labels, syringes and equipment illustrations to simulate the clinical setting. Employs a large workbook trim size to enable students to work out solutions right in the book. Features actual examples of Medication Administration Records in Chapter 9 to increase the clinical reality of the material. Includes clinical descriptions with each practice problem to reflect realistic health care situations. Introduces and consistently uses SI Units to reinforce the understanding and use of this international standard of measurement. Presents a chapter on How to Read Drug Labels to help students read and understand all information on the label. Concludes with an updated comprehensive posttest featuring clinical scenarios and medication labels to allow students to evaluate their progress. Includes a FREE CD ROM.

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