

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

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

Dimensional Analysis Practice With Answers

Maria Glaucia Teixeira, Joel L. Zatz



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Tauck,2016-02-09 Authors Philip R Kesten and David L Tauck take a fresh and innovative approach to the university physics calculus based course They combine their experience teaching physics Kesten and biology Tauck to create a text that engages students by using biological and medical applications and examples to illustrate key concepts University Physics for the Physical and Life Sciences teaches the fundamentals of introductory physics while weaving in formative physiology biomedical and life science topics to help students connect physics to living systems The authors help life science and pre med students develop a deeper appreciation for why physics is important to their future work and daily lives With its thorough coverage of concepts and problem solving strategies University Physics for the Physical and Life Sciences can also be used as a novel approach to teaching physics to engineers and scientists or for a more rigorous approach to teaching the college physics algebra based course University Physics for the Physical and Life Sciences utilizes six key features to help students learn the principle concepts of university physics A seamless blend of physics and physiology with interesting examples of physics in students lives A strong focus on developing problem solving skills Set Up Solve and Reflect problem solving strategy Conceptual questions Got the Concept built into the flow of the text Estimate It problems that allow students to practice important estimation skills Special attention to common misconceptions that often plague students and Detailed artwork designed to promote visual learning Volume I 1 4292 0493 1 Volume II 1 4292 8982 1 *Clinical Calculations*

Joanne M. Daniels,Loretta M. Smith,2005 The original is now a classic *Clinical Calculations* was the first text to introduce the dimensional analysis method of calculating dosages an approach rapidly becoming the method of choice for nurses The fifth edition of this trailblazer showcases its proven strengths a clear writing style workbook style format strong IV therapy content and clinical applicability Critical thinking is encouraged in conjunction with memorized rules by asking learners to always consider whether their answers make sense It does this within the context of providing the core knowledge base for dosage calculation and administration for learners of all levels and experience Chapters cover the range of practice including systems of measurement oral and parenteral medications basic and advanced intravenous medications and pediatric dosage Just as the title suggests this resource is the ideal tool for calculation in a clinical setting With copious reference tools outlined injection sites for IV therapy and unique performance criteria for evaluating nurse competency the tradition of excellence and innovation continues **Programmed Problem-solving for First-year Chemistry** Arnold B. Loebel,1983

Introduction to Aeronautical Dynamics Manfred Rauscher,1953 *McGraw-Hill Education SAT Subject Test Chemistry 4th Ed.* Thomas A. Evangelist,2016-01-01 Prepare for the SAT Chemistry test with the experts you trust This step by step guide will give you the knowledge and tools you need to succeed on this challenging exam You ll get essential skill building techniques and strategies created and classroom tested by a leading high school science teacher You ll also get full length practice tests hundreds of sample questions and all the facts about the current exam everything you need to do your best on test day Features 5 full length sample tests in the latest test format More than 500 practice questions Step by step review of

all topics covered on the exam Teacher recommended strategies to raise your score Special features SAT Chemistry at a Glance Top Items to Remember on Test Day and more About the Author Thomas A Evangelist teaches high school science for the New York City Board of Education 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 **Mathematics for Nurses with Clinical Applications** Mary K. Miller,1981 This book exposes nursing students to the mathematics required for success in their profession In the teaching arithmetic the text also presents a survey of the various types of mathematical problems encountered in clinical surroundings This book is suitable for use in traditional lecture classes *U Can: Chemistry I For Dummies* John T. Moore,Chris Hren,Peter J. Mikulecky,2015-08-10 Now you can score higher in chemistry Every high school requires a course in chemistry for graduation and many universities require the course for majors in medicine engineering biology and various other sciences U Can Chemistry I For Dummies offers all the how to content you need to enhance your classroom learning simplify complicated topics and deepen your understanding of often intimidating course material Plus you ll find easy to follow examples and hundreds of practice problems as well as access to 1 001 additional Chemistry I practice problems online As more and more students enroll in chemistry courses the need for a trusted and accessible resource to aid in study has never been greater That s where U Can Chemistry I For Dummies comes in If you re struggling in the classroom this hands on friendly guide makes it easy to conquer chemistry Simplifies basic chemistry principles Clearly explains the concepts of matter and energy atoms and molecules and acids and bases Helps you tackle problems you may face in your Chemistry I course Combines how to with try it to form one perfect resource for chemistry students If you re confused by chemistry and want to increase your chances of scoring your very best at exam time U Can Chemistry I For Dummies shows you that you can *Schaum's Outline of Fluid Mechanics, Second Edition* Merle C. Potter,David C. Wiggert,2020-10-09 Stay on top of your fluid mechanics course and study smarter for the Fundamentals of Engineering Exam with the thoroughly updated Schaum s Outline bestseller Tough Test Questions Missed Lectures Not Enough Time Fortunately there s Schaum s More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you 510 fully solved problems to reinforce knowledge 2 practice exams one multiple choice and one partial credit after each of the first 9 chapters 2 final practice exams 54 Fundamentals of Engineering questions for the engineering qualifying exam Hundreds of examples with explanations of fluid mechanics courses Practice problems in multi choice format like those on the Fundamentals of Engineering Exam Support for all the major textbooks for fluid mechanics courses Schaum s reinforces the

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aluminum 54.0 g 3 mol hydrogen gas 1.00 g Al 0.0556 mol H_2 g 4 we can react an alloy of

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