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 ≈ 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

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

2. 13 weeks to seconds

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

3. 54 yards to mm

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

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

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

Dimensional Analysis Practice Problems Answer Key

Jason Overby,Raymond Chang

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. McCuistion,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 McCuistion 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 your 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

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