

DIMENSIONAL ANALYSIS PROBLEMS

Conversions Factors

1 hr = 60 min	1 min = 60 sec	1 ton = 2000 lbs	7 days = 1 week
24 hrs = 1 day	1 kg = 2.2 lbs	1 gal = 3.79 L	264.2 gal = 1 cubic meter
1 mi = 5,280 ft	1 kg = 1000 g	1 lb = 16 oz	20 drops = 1 mL
365 days = 1 yr	52 weeks = 1 yr	2.54 cm = 1 in	1 L = 1000 mL
0.621 mi = 1.00 km	1 yd = 36 inches	1 cc is 1 cm ³	1 mL = 1 cm ³

DIRECTIONS: Solve each problem using dimensional analysis. Every number must have a unit. Work must be shown. Conversion factors are given above.

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

$$6.2 \text{ mi}$$

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

$$1,320,000,000 \text{ ft}$$

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

$$37.85 \text{ m}^3$$

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

$$5.5 \text{ hrs/day}$$

How many seconds is this?

$$19,800 \text{ sec}$$

5.) How many seconds are there in 1 year?

$$31,536,000 \text{ sec}$$

Dimensional Analysis Worksheet Answers

Elizabeth Kean, Catherine Middlecamp



Dimensional Analysis Worksheet Answers:

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, 2015-01-29 Known for its textbook workbook format *Calculation of Drug Dosages* 10th Edition makes it easy to master the ratio and proportion formula and dimensional analysis methods for drug calculation A basic review of mathematics refreshes your math skills and plenty of practice problems help you overcome any inexperience or weaknesses you may have Written by nursing experts Sheila Ogden and Linda Fluharty this resource helps you calculate drug dosages accurately and with confidence An extensive math review covers the basic math skills essential for accurate calculation of drug dosages and helps you identify your strengths and weaknesses Over 1 800 practice problems reinforce your understanding of drug calculations A logical structure is organized from simple to complex making it easier to absorb and retain knowledge Learning objectives keep you focused and explain what you should accomplish upon completion of each chapter An Alert box highlights information crucial to math calculation and patient safety Chapter worksheets allow you to practice solving realistic problems Post tests at the end of each chapter let you assess your understanding of content A comprehensive post test at the end of the book offers additional practice and accurately gauges your overall understanding Over 600 practice problems on the Evolve companion website cover ratio proportion formula and dimensional analysis methods 25 flash cards on Evolve contain abbreviations

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