



Pharmaceutical calculation equations

BASIC MATHEMATICS

Temperature Conversion:

$$^{\circ}\text{F} = \frac{9}{5} \times ^{\circ}\text{C} + 32 \quad ^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$$

$$\text{K} = ^{\circ}\text{C} + 273.15$$

Roman Numerals:

SS = $\frac{1}{2}$

I or i = 1

V or v = 5

X or x = 10

L or l = 50

C or c = 100

D or d = 500

M or m = 1000

- when the second of two letters has a value equal to or smaller than that of the first, their values are to be added.

- when the second has a value greater than that of the first, the smaller is to be subtracted from the larger.

Proportion:

$$\frac{a}{b} = \frac{c}{d} \rightarrow a \times d = c \times b$$

TORSION BALANCE

The sensitivity requirement (SR) of a torsion

$$\% \text{ Error} = \frac{\text{SR}}{\text{Amount to Weigh}} \times 100\%$$

Minimum Weighable Quantity (MWQ) and Aliquot Method

$$\text{MWQ} = \frac{\text{SR}}{\text{Maximum \% Error}} \times 100\%$$

ALIQOT METHOD

1. Determine the minimum weighable amount for the instrument
2. Weigh the minimum amount (or any multiple) of the substance
3. Mix with a determined amount of the inert substance to obtain a dilution or mixture
4. Weigh an aliquot (sample) of the mixture, which will provide the desired quantity of the substance
5. All weighed quantities must be equal or greater than the minimum weighable amount

$$\frac{\text{Weight of drug in trituration}}{\text{Weight of trituration}} = \frac{\text{Weight of drug in aliquot}}{\text{Weight of aliquot}}$$

DIMENSIONAL ANALYSIS

- This method involves the understanding the ratios of the data and the equivalence between the units in a way that like units will cancel out and only the desired terms will be left.



SYSTEMS OF MEASUREMENT:

Systems of Measurement:

Liter (L) for volume

Gram (g) for weight

Meter (m) for length

Measurement Unit	Equivalent within System	Metric Equivalent
1 gr (grain)		65 mg
1 oz (ounce)	437.5 gr	30 g (28.35 g)*
1 lb (pound)	16 oz or 7000 gr	1.3 g

Measurement Unit	Equivalent within System	Metric Equivalent
1 tsp (teaspoonful)		5 mL
1 tbsp (tablespoonful)	3 tsp	15 mL
1 fl oz (fluid ounce)	2 tbsp	30 mL (29.57 mL)*
1 cup	8 fl oz	240 mL
1 pt (pint)	2 cups	480 mL*
1 qt (quart)	2 pt	960 mL
1 gal (gallon)	4 qt	3840 mL

Measurement Unit	Equivalent within System	Metric Equivalent
1 oz (ounce)		30 g
1 lb (pound)	16 oz	454 g
2.2 lb		1 kg

Prefix	Meaning
pico-	one trillionth (basic unit $\times 10^{-12}$, or unit $\times 0.000,000,000,001$)
nano-	one billionth (basic unit $\times 10^{-9}$, or unit $\times 0.000,000,001$)
micro-	one millionth (basic unit $\times 10^{-6}$, or unit $\times 0.000,001$)
milli-	one thousandth (basic unit $\times 10^{-3}$, or unit $\times 0.001$)
centi-	one hundredth (basic unit $\times 10^{-2}$, or unit $\times 0.01$)
deci-	one tenth (basic unit $\times 10^{-1}$, or unit $\times 0.1$)
hecto-	one hundred times (basic unit $\times 10^2$, or unit $\times 100$)
kilo-	one thousand times (basic unit $\times 10^3$, or unit $\times 1000$)

AMINOPHYLLINE TO THEOPHYLLINE CONVERSION

Converting aminophylline to theophylline:

Converting theophylline to aminophylline:

$$\text{aminophylline dose} \times 0.8 = \text{theophylline dose} \quad \text{theophylline dose} \div 0.8 = \text{aminophylline dose}$$

DENSITY AND SPECIFIC GRAVITY

$$\text{Density } (\rho) = \frac{\text{Mass } (m)}{\text{Volume } (v)}$$

$$\text{Specific gravity } (\text{sp. g}) = \frac{\text{density of substance } (\rho_s)}{\text{density of water } (\rho_w)}$$

Pharmacy Calculations For Technicians

IM Harris



Pharmacy Calculations For Technicians:

Pharmacy Calculations: An Introduction for Pharmacy Technicians Joy Bellis Sakai, Leanora Kasun, 2012-07-01 Pharmacy Calculations An Introduction for Pharmacy Technicians is designed for pharmacy technician students enrolled in a training program technicians preparing for the certification exam and for on site training As the role for pharmacy technicians continues to evolve and expand one thing remains constant The safety of patients is the highest priority for anyone working in pharmacy whether in hospital retail or institutional practices A thorough understanding of pharmacy math ensures accuracy in computations and safety and quality in practice This book offers a complete review of the basic mathematics concepts and skills which provide a foundation for more advanced understanding of pharmacy related topics The guide provides students with the pharmacy basics necessary for correctly interpreting prescriptions and drug orders and for performing dosing calculations that technicians face every day The chapters are broken down into four units and are organized to complement most pharmacy technician training curricula and to support the ASHP model curriculum Review of Mathematics Systems of Measurement Preparing for Problem Solving in Pharmacy Dosing Calculations and Other Pharmacy Problems Key features throughout the book include Chapter objectives Key terms and definitions Examples of problem scenarios or calculations questions and solutions Tech Note provides a highlight of key points within the chapters Numbers at Work illustrates why key concepts are important to know and skills are critical to master Practice problems A test bank Appendices that include the parts of a prescription a glossary of terms conversions and abbreviations tables For additional resources related to this book visit www.ashp.org/techcalculations

Pharmacy Calculations for Technicians Don A. Ballington, 2010-01-01 Pharmacy Calculations for Technicians Fourth Edition offers the most thorough approach to understanding pharmacy calculations so every student succeeds Its extensive examples help students apply calculations in the workplace Additional problems with solutions at the end of the book provide practice with immediate feedback Pretest available to check student readiness Study Partner multimedia CD included with each textbook

Pharmaceutical Calculations for the Pharmacy Technician Barbara E Lacher, 2020-06-15 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

Pharmacy Calculations Matthew Rewald, Bradley Lorang, Garrett Schramm, 2021 Offering a complete review of the basic mathematics concepts and skills Pharmacy Calculations An Introduction for Pharmacy Technicians Second Edition provides students with the pharmacy basics necessary for correctly interpreting prescriptions and drug orders and for performing dosing calculations that technicians face every day The second edition has been streamlined to focus on the most important pharmacy calculation concepts covering the fundamentals related to accuracy and basic math operations units of measurement and conversions critical

thinking in problem solving dosing calculations percentages concentration calculations compounding formulas intravenous infusion calculations and business math What's new in this edition The chapters are broken down into four units and organized to complement most pharmacy technician training curricula and to support the ASHP ACPE model curriculum Review of Mathematics Systems of Measurement Preparing for Problem Solving in Pharmacy Dosing Calculations and other Pharmacy Problems Key features throughout the book include Chapter objectives Key terms and definitions Examples of problem scenarios or calculations questions and solutions Tech Note provides a highlight of key points within the chapters Numbers at Work illustrates why key concepts are important to know and skills are critical to master Practice problems Appendices that include the parts of a prescription a glossary of terms conversions and abbreviations tables

Pharmacy Calculations for Pharmacy Technicians Bradley Wojcik, 2018-01-08 Are you a pharmacy technician or pharmacy technician student who wants to learn a few simple methods of solving pharmacy calculations without a bunch of formulas Would you like to raise your hand in Pharmacy Calculations Class after the instructor explains a complicated formula and ask to approach the white board to show the class a much simpler method Do you want to go out on your externship and teach practicing pharmacy technicians how to perform pharmacy calculations Do you want to walk into your Pharmacy Calculations Class on the first day knowing that you can ace all the tests before the course begins If you answered yes to any of these questions this book is for you The book's first chapter covers the following auxiliary subjects which are important to a well rounded knowledge of pharmacy calculations Rounding Numbers Roman Numerals The Metric System Scientific Notation Significant Figures Percent Error The Apothecary Avoirdupois Household Systems The second chapter will teach you that all the following types of calculations can be performed with one simple method If you can convert 5 g to mg using this method you can solve the most complicated IV flow rate problem Unit Conversions Dosage Calculations IV Flow Rate Calculations Percent Calculations Percent Strength Calculations Ratio Strength Calculations Quantity to Dispense Calculations Milliequivalent Calculations The third chapter covers concentrations and dilutions While there is not one method of solving all these problems you will quickly see that they all have common components Topics covered are Preparing a Solution Using Two Different Strength Solutions Preparing a Solution from a Stock Solution and a Diluent Calculating the Percent Strength of a Mixture Powder Volume Calculations Serial Dilution The book includes plenty of exercises to hone your skills along with a self assessment exercise Finally the book ends with a couple of Pharmacy Calculation Puzzles These puzzles are for those students who want to say to themselves If I can solve these I can solve any possible problem I will encounter

Pharmacy Calculations for Technicians Don A. Ballington, 2007

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a much simpler method Do you want to go out on your externship and teach practicing pharmacy technicians how to perform pharmacy calculations Do you want to walk into your Pharmacy Calculations Class on the first day knowing that you can ace all the tests before the course begins If you answered yes to any of these questions this book is for you The book's first chapter covers the following auxiliary subjects which are important to a well rounded knowledge of pharmacy calculations Rounding Numbers Roman Numerals The Metric System Scientific Notation Significant Figures Percent Error The Apothecary Avoirdupois Household Systems The second chapter will teach you that all the following types of calculations can be performed with one simple method If you can convert 5 g to mg using this method you can solve the most complicated IV flow rate problem Unit Conversions Dosage Calculations IV Flow Rate Calculations Percent Calculations Percent Strength Calculations Ratio Strength Calculations Quantity to Dispense Calculations Milliequivalent Calculations The third chapter covers concentrations and dilutions While there is not one method of solving all these problems you will quickly see that they all have common components Topics covered are Preparing a Solution Using Two Different Strength Solutions Preparing a Solution from a Stock Solution and a Diluent Calculating the Percent Strength of a Mixture Powder Volume Calculations Serial Dilution The book includes plenty of exercises to hone your skills along with a self assessment exercise Finally the book ends with a couple of Pharmacy Calculation Puzzles These puzzles are for those students who want to say to themselves If I can solve these I can solve any possible problem I will encounter

Math Calculations for Pharmacy Technicians - E-Book Robert M. Fulcher, Eugenia M. Fulcher, 2012-03-16 Written for pharmacy technicians and addressing the competencies developed by the American Society of Health System Pharmacists ASHP Math Calculations for Pharmacy Technicians 2nd Edition helps you learn to calculate drug dosages safely and accurately A practical worktext format covers everything from basic math skills to reading and interpreting labels and physicians orders introducing key calculation and conversion concepts and then providing hundreds of problems so you can practice and master the material Other vital topics include conversions between the various measurement systems reconstituting liquid medications and calculating medications based on a patient's age or body weight Written by experienced pharmacist Robert Fulcher and educator Eugenia Fulcher Math Calculations for Pharmacy Technicians helps you learn calculation skills and develop the competencies needed by pharmacy technicians Learning objectives and definitions of key words begin each chapter Pretests in each chapter allow readers to assess their current knowledge of specific topics Step by step examples make it easy to learn and remember how to do equations and use formulas Hundreds of practice problems provide practice with calculations conversions and measurements Actual drug labels accompany examples and problems for real world experience with the information you will see in pharmacy practice Business Math for Pharmacy Technicians chapter introduces the calculations needed in retail pharmacy settings Body system icons appear next to medication names to help you associate different drugs with their respective disorders and body systems Points to Remember boxes make it easy to learn and remember key information

Review of Rules sections in each chapter summarize the rules and methods for performing equations Chapter reviews provide a quick summary of the key concepts in each chapter Posttests in each chapter allow you to assess how well you have learned the material A comprehensive posttest includes 50 questions that assess your knowledge of all major topics covered in the book Helpful study tools also include an answer key for odd numbered problems and a comprehensive glossary Updated content meets ASHP requirements and features new topics such as powder volume and compounding problems formulas for reducing and enlarging medications and opportunities to write out prescription label directions Tech Note boxes offer helpful advice on real life situations you may encounter in the pharmacy Tech Alert boxes warn against common pharmacy and medication errors that could impact patients safety Additional prescription and practice exercises give you valuable experience with translating physician directions into patient instructions *Pharmacy Calculations for Technicians* Don A. Ballington, Mary M. Laughlin, WHAT YOU LL FIND INSIDE Intensive practice in pharmacy calculations conversions measurements and applications of equations Pharmaceutical Calculations for the Pharmacy Technician Barbara E Lacher, 2020-06-15 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

Pharmacy Calculations for Technicians Don A. Ballington, Skye A. McKennon, 2017 With Pharmacy Calculations for Technicians students learn the essential mathematics concepts and skills pharmacy technicians use on the job Clear complete examples and practice problems guide students in learning the skills required for calculating and preparing drug doses in both community and institutional pharmacy settings Students are guided step by step through calculation methods including ratio and proportion dimensional analysis and alligation Pharmacy Calculations for Technicians Don A. Ballington, Tova Wiegand Green, 2010 **Pharmacy Calculations 6th Edition** Mary F. Powers, David R. Bright, 2020-01-01 Pharmacy Calculations 6e provides pharmacy technician students and professionals with the tools necessary to learn the types of calculations commonly encountered in community and institutional pharmacy The content of Pharmacy Calculations 6e includes material covering the knowledge areas within the Pharmacy Technician Certification Exam PTCE and Exam for Certification of Pharmacy Technicians ExCPT This book is clearly written accurate and easy to understand It can be used in a classroom setting or for independent study to develop a careful and systematic approach to pharmacy calculations and can be used as a study aid for the PTCE and ExCPT exams It aligns with the Fifth Edition of the American Society of Health System Pharmacists ASHP Model Curriculum for Pharmacy Technician Education and Training Programs and the 2020 content outline for the Pharmacy Technician Certification Examination PTCE *Pillars of Pharmacy Calculations for the Technician* Vanessa LeSure-Walker, 2015-06-17 Some people cannot move forward in their career because of a math weakness There are even some who shudder when it comes to tackling math If this is you and you work in medicine or strive

to one day you need this book It will teach you the skills necessary to make you ready to learn more advanced calculations This book was written by a licensed Pharmacist who specializes in the training of Pharmacy Technicians and has done so for the past eleven years In this book she talks about the basic things that stand in a person s way when it comes to learning pharmacy math This book lays the foundational framework necessary in order to advance to more challenging calculations It is part analysis part inspiration part calculation and all of it is necessary for successful learning Vanessa uses the same conversational tone in this book that has had success with in her classroom Hundreds of students have taken and passed the PTCB Exam because of her ability to bring lessons to life Many technicians have come to her classes as math inept and left as being very skilled She has proven that pharmacy math does not have to be scary *Pharmacy Calculations For Pharmacy Technicians* Katharine Scadlock,2021-03-31 This book was a great help in preparing me for my Pharmacy Technician Certification Test It breaks down and easily explains calculations in a simple and clear way This book is divided into eight units containing 33 chapters and over 400 practice problems *PHARMACY CALCULATIONS FOR TECHNICIANS* SKYE A.. BALLINGTON MCKENNON (DON A.),2020 **Math Calculations for Pharmacy Technicians** Elaine Beale,2022-04-06 Master the math skills needed to calculate drug dosages safely and accurately *Math Calculations for Pharmacy Technicians* 4th Edition covers the competencies required by the American Society of Health System Pharmacists ASHP Designed specifically for Pharmacy Technicians the book includes a review of basic math conversions between measurement systems interpretation of drug labels and physicians orders and calculation of medications based on a patient s age body weight or body surface area Two basic methods of calculating drug dosages are described ratio proportion and dimensional analysis Simplifying calculation concepts Elaine Beale s practical worktext breaks down calculations provides examples and contains hundreds of practice problems to help you develop calculation confidence and prepare for a successful career as a Pharmacy Technician More than 1 800 practice problems to help you achieve skills mastery and speed with calculations conversions and measurements Step by step examples that follow the written explanation of a calculation to break down complex formulas into more manageable building blocks UNIQUE Body system icons next to medication names to help you learn to associate drugs with their respective disorders and body systems Chapter pretests and posttests to help you assess your comprehension as well as areas of strength and areas for improvement Learning features including safety alerts to prevent common pharmacy and medication errors tech notes to highlight important concepts and application to realistic on the job situations Key terms including definitions and are accompanied by a back of book glossary for reference NEW Coverage of compounding medications along with newer products such as biologicals used to treat chronic disease or anticoagulants that are alternatives to warfarin and heparin NEW Expanded case based problems with realistic drug labels simulating practice and allowing realistic application NEW Appendix of top 200 commonly prescribed medications also available online as a printable document for on the job reference *Pharmacy Calculations* Leda Banuelos,2021-03-31 This book was a great help

in preparing me for my Pharmacy Technician Certification Test It breaks down and easily explains calculations in a simple and clear way This book is divided into eight units containing 33 chapters and over 400 practice problems

The Pharmacy Technician Series Mike Johnston (Pharmacy technician),2006

Essential Math and Calculations for Pharmacy Technicians Indra K. Reddy,Mansoor A. Khan,2003-09-26

Accurately calculating medication dosages is a critical element in pharmaceutical care that directly affects optimal patient outcomes Unfortunately medication dosage errors happen in pharmacies in hospitals or even at home or in homecare settings everyday In extreme cases even minor dosage errors can have dire consequences Careful calculations are essential to providing optimal medical and pharmaceutical care

Essential Math and Calculations for Pharmacy Technicians fills the need for a basic reference that students and professionals can use to help them understand and perform accurate calculations Organized in a natural progression from the basic to the complex the book includes Roman and Arabic Numerals Fractions and decimals Ratios proportions and percentages Systems of measurement including household conversions Interpretation of medication orders Isotonicity pH buffers and reconstitutions Intravenous flow rates Insulin and Heparin products Pediatric dosage Business math Packed with numerous solved examples and practice problems the book presents the math in a step by step style that allows readers to quickly grasp concepts The authors explain the fundamentals simply and clearly and include ample practice problems that help readers become proficient The focus on critical thinking real life problem scenarios and the self test format make Essential Math and Calculations for Pharmacy Technicians an indispensable learning tool

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