

IV and Drug Calculations for Busy Paramedics

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Introduction

Medication calculations can cause frustration for EMS providers. Math and pharmacology can make it difficult to succeed on course exams, in the clinical setting, and in the field. There is a solution to make medication calculations easier. The answer to this problem is simple by showing students how to perform calculations using a simple process.

While there are plenty of good drug and solution textbooks, study guides, and presentations available showing the methods of medication calculations, it seems that it much of it causes mathematical confusion often called "math mental blocks" for many EMS providers.

There are only a few drug calculations necessary in the prehospital setting. These calculations include IV drip rates, IV piggyback infusion, IM and Subcutaneous injection. A good review of the metric system is in order here since medicine is based on this measurement system. It is necessary to *practice* drug calculations on a regular basis to gain a comfort level with the methods. The best way to achieve this comfort level is to practice medication calculations 30 minutes a day for six months and it will come natural after while.

Common abbreviations are used in medication administration for all medical fields. Below is a list of some abbreviations that are found in drug calculations used in the prehospital setting:

Gram = Mass	5 cc = 1 tsp	gtts/ml = Drops per milliliter
Meter = Length	15 cc = 1 TBS or 3 tsp	gtts/min = Drops per minute
Liter = Volume	30 cc = 1 ounce	Conversion
Gm = Grams	30 cc = 2 TBS	Convert grams to milligrams: multiply X 1000
Gtts = Drops	60 mg = 1 Grain	Convert liters to milliliters: multiply X 1000
Hr = Hour	1 Gram = 15 Grains	Convert milligrams to grams: divide by 1000
IVPB = Intravenous Piggyback	X = Multiply	Convert milliliters to liters: multiply X 1000
Mcg = Micrograms	x = Unknown answer	Don't forget where to place the decimal
Min = Minute	/ = Per or Each	
Mg = Milligrams	— = Divide	
ml = Milliliters	- = Minus	

Table 1

It is assumed that the reader has an understanding of general mathematics. It also assumed that the reader has a general understanding of the metric system as it relates to medicine and drug calculations.

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Ying Liu



Iv And Drug Calculations For Busy Paramedics:

Paramedic: Calculations for Medication Administration American Academy of Orthopaedic Surgeons (AAOS), Mithriel Salmon, David S. Pomerantz, 2008-10-13 I love math I hate math Whether you're a math aficionado or someone who cringes at calculations *Paramedic Calculations for Medication Administration* will make you a master of paramedic math This textbook teaches the basic principles of mathematics and applies these principles to cases that paramedics face on the job Chapters cover math rules and principles fractions decimals and percentages ratios proportions and conversion factors and rate dependent and weight based calculations Practice problems are scattered throughout the chapters students practice as they go Every chapter highlights how paramedics can make use of the math knowledge that they already have in order to solve more complicated problems Chapters begin with the simple and obvious and progress to the level used in the field Practice makes perfect this text has over 700 practice problems In addition to the in chapter practice chapters conclude with more problems Complete answers to every problem including explanations are provided in the answer key Every step is included making it easy to follow how an answer was reached Part of the AAOS Paramedic Series covers all the DOT objectives related to calculations for medication administration and can be used in prerequisite or co requisite paramedic math courses 2009 224 pages

Pharmacology for the EMS Provider Richard K Beck, 2015-07-31 Overcome your fears and build your confidence while you master the mathematics and pharmacology knowledge you need to pass your licensure exams and prepare for professional practice

Mosby's Paramedic Textbook Mick J. Sanders, Lawrence M. Lewis, Kim McKenna, Gary Quick, 2012 This new edition provides complete coverage of prehospital care in a single comprehensive text It explains the paramedic's role the unique characteristics of prehospital care emergency care of acutely ill traumatically injured patients

Clinical Cases: Drug Calculations Case Studies - eBook Adriana Tiziani, 2016-01-07 APPLY THEORY TO PRACTICE WITH THE CLINICAL CASES SERIES Based on real life scenarios the Clinical Cases series presents quality case studies complete with answers to provide nursing students with an opportunity to explore scenarios they are likely to encounter in a variety of practice settings Clinical Cases Drug Calculations Case Studies can be used in conjunction with Havard's Nursing Guide to Drugs 9th edition as part of the suite of resources for undergraduate and Diploma of nursing students Each case starts with an introduction where the presenting condition and symptoms are outlined and as the case progresses more details of the patient's condition tests medications and other considerations are provided All cases come together with a conclusion where the patient outcomes are highlighted followed by a discussion of the key considerations for the case Multiple Choice Questions are integrated throughout and rationales are provided for all answers Clinical Cases Drug Calculations Case Studies is perfect for use during exam preparation or as a study tool providing an engaging approach to learning and revision 20 progressive case studies across a range of clinical practice areas including care of the adult patient paediatrics aged care palliative care and midwifery Multiple Choice Questions integrated throughout each stage of the case

studies Rationales provided for all answers References for further reading and research **Paramedic** Andrew N. Pollak, MD, FAAOS, Mithriel Salmon, BS, MT (ASCP), NREMT-P, LP and David S. Pomerantz, NREMT-B, EMT-P, Emergency Medical Services ,1991 ACLS Ken Grauer,1996 With timely detailed coverage of the new requirements and skills needed to pass the Advanced Cardiac Life Support Examination this book discusses the new American Heart Association ACLS algorithms and reviews important drugs and treatment modalities including defibrillation and pacing Case scenarios are emphasized 112 illus **Workbook for Pharmacology for Nurses** Adams,Michael Patrick Adams,Dianne L. Josephson,Senior Lecturer in Human Resource Management Holland,Leland Norman Holland,Pearson,2004-03

Introduction to Drug Calculations Greg Logue,2014-07-07 Finally a drug calculations manual for PARAMEDICS Written by a paramedic instructor with over 20 years of experience in EMS this manual provides the simple instructions needed to tackle one of the most stressful phases of Paramedic school A few years ago the author noticed an unacceptable lack of proficiency in drug calculations from paramedic students Since he developed this step by step manual his students grades increased from 50 s and 60 s to 90 s and 100 s Introduction to Drug Calculations uses a step by step process to build your skills from the ground up starting with the basics of the metric system and finishing with IV infusions The manual also contains valuable reference material and short cuts to help you in school and on the streets **Drug Dosage Calculations** Alan A. Mikolaj,1997 This practical new text provides readers with all the necessary tools to solve just about every type of dosage and calculation problem they will encounter It focuses on the three areas that pose the greatest challenges

Paramedic Med-Math Made Easy Diane Pettway,2008-09-30 As an emergency care professional you save lives every day And while physicians will order various medications to be administered he or she may not know the strengths or amounts of medication you have available in your ambulance You therefore must convert what you have on hand into an equivalent dose to match the physician s orders Paramedic Med Math Made Easy provides step by step instructions for the most common every day formulas you ll use in the field In its easy to understand format you ll quickly grasp how to convert pounds to kilograms teaspoons to milliliters or grams to milligrams With the equivalents and formulas laid out Paramedic Med Math Made Easy then provides examples showing how formulas are used along with guidelines to help you understand each calculation Also included are practical application problems and their answers Each scenario illustrates how the application or conversion should be set up so you can clearly see and understand how the calculation works and where pitfalls may occur Admittedly you can choose among several math formula methods to calculate proper doses to administer Most important though is deciding what method works best for you the one that prevents you from making any errors Paramedic Med Math Made Easy will help you do just that **Clinical Calculations - E-Book** Joyce LeFever Kee,Sally M. Marshall,2016-01-19 Accurate drug calculations start here Clinical Calculations With Applications to General and Specialty Areas 8th Edition covers all four major drug calculation methods ratio proportion formula fractional equation and dimensional analysis It also

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EMS Dosage Calculation: Math Review and Practice for Paramedics Kaplan Medical, 2018-01-24 Kaplan s EMS Dosage Calculation provides clear concept review practice questions and detailed explanations to help you master the math you need to correctly administer medications Whether you re an EMT or a paramedic Kaplan s practical guide provides expert advice for learning and practicing dosage calculation Essential Practice Diagnostic quiz to identify your strengths and weaknesses so you can focus your review Practice problems for oral IV and parenteral medication administration Dosage calculation practice using dimensional analysis ratio proportion and formula methods Easy to follow examples and step by step explanations Chapter quizzes with detailed answer keys for immediate feedback Calculation space throughout to work the practice problems Expert Guidance We invented test prep Kaplan www.kaptest.com has been helping students for almost 80 years Our proven strategies have helped legions of students achieve their dreams

Easy 4-step Method to Drug Calculations S. D. Foust, 2004 This resource makes the difficult concept of drug dosage calculations easy to understand and master by utilizing a simple four step method that focuses only on the information necessary for learning the skill It has been class tested on hundreds of students KEY TOPICS Hundreds of practice problems are included that incorporate realistic patient scenarios protocols and the latest trends in treatment management A worked out answer section clearly shows the step by step process of problem solving Topics include Calculating the Desired Dose Calculating the Concentration Calculating the cc s Calculating the Drip Rate A Final Review

Section tests comprehension MARKET Paramedics nurses students and any other healthcare professional who administers medication

Drug Calculations Meta Brown, Meta Brown Seltzer, Joyce M. Mulholland, 2012 Covering the ratio and proportion method of drug calculations Drug Calculations Ratio and Proportion Problems for Clinical Practice 9th Edition provides clear step by step explanations and concise examples to ensure safety and accuracy Unique to this book a proof step in the answer key lets you double check your calculation results to avoid medication errors Safety is also addressed through the inclusion of Quality Safety Education for Nurses QSEN information and with features such as Clinical Alerts and High Alert drug icons calling attention to situations in actual practice that have resulted in drug errors Written by Meta Brown Seltzer and Joyce Mulholland this text includes extensive hands on practice with calculation problems critical thinking exercises worksheets and assessment tests And to boost your proficiency a companion Evolve website adds more than 600 additional practice problems The ratio and proportion method provides a logical accurate and consistent method of drug calculation Step by step format for each problem includes a unique proof step in the answer key to ensure that you understand the solution Clinical Alerts highlight potential and common drug calculation errors Critical thinking exercises help you apply analytical skills and drug calculations to clinical practice A patient safety chapter enhances your understanding of drug labels medication administration forms and physician s order forms Over 1 100 practice problems offer the extensive practice you need to become proficient in drug calculations Multiple choice worksheets within each chapter help you prepare for the NCLEX examination Worksheets follow each chapter section for additional practice and application of drug calculations Chapter Finals and a Comprehensive Final let you evaluate your mastery of drug calculations Current recommendations from The Joint Commission and the Institute for Safe Medication Practices help reduce medication errors and promote patient safety Quality Safety Education for Nurses QSEN information highlights ways to reduce medication errors A high risk medication icon calls attention to medications that have the most potential to cause harm to patients Updated full color drug labels and equipment photos including pumps and IV equipment show what you will encounter in the clinical setting

Drug Calculations & Drug Administration Cynthia C. Chernecky, Mother Helena Infantina, Denise Macklin, 2006 Designed to be a study and review series to help you get through the nursing school jungle With this tool in your hands you ll have no trouble mastering the complexities of drug calculations and oral intramuscular subcutaneous topical and intravenous drug administration

Medical Dosage Calculations For Dummies Richard Snyder, Barry Schoenborn, 2011-05-03 Score your highest in a medical dosage calculations course A recent shortage of nurses in a society with an aging population has triggered the demand for students to enter the field of medical study A dosage calculations course is required for most students earning an applied science degree in nursing pharmacology or paramedic programs Medical Dosage Calculations For Dummies tracks a typical dosage calculations course and provides helpful content in an approachable and easy to understand format Plus you ll get examples of the various calculations made to determine the

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web 1 a 4 31 x 10 22 atoms ni b 7 01 x 10 20 ions br c 2 52 x 10 23 molecules h 2 d 7 79 x 10 21 molecules h 2 o 2 2 a 5 25 g naoh b 1 15 x 10 3 g lactose c 82 1 g fe d 0 332 g no 2 3 6 54 x 10 21 molecules of c 3 h 8 o 3 4 2 79 grams of nh 3 5 1 97 x 10 22 grams of sn

chapter 10 chemical quantities scarsdale public schools - Jan 13 2023

web chapter 10 chemical quantities basics the basic unit that is used to determine the amount of a chemical substance is called a mole a mole mol of a substance is equivalent to 6 02 x 10²³ particles of that substance

chemistry 12th edition chapter 10 chemical quantities 10 1 - Feb 14 2023

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evolution of whales animation smithsonian ocean - Feb 01 2023

web smithsonian institution whales have existed for millions of years watch this animation from the sant ocean hall to see how they evolved from land dwellers to the animals we know today discover more about whale evolution in our ocean over time interactive

use dna sequencing to trace the blue whale s evolutionary tree - Mar 02 2023

web the ambiguous cylinder illusion in this science fair project demonstrate that whales are genetically related to other mammals and came from land based ancestors by comparing whale genes with other sequences in the genbank sequence database

whale evolution smithsonian national museum of natural history - Jul 26 2022

web in this two part activity students explore the idea of common ancestry by making hypotheses about relatedness among whales deer tigers seals and sharks they use an evolutionary tree to keep track of their hypotheses and observations about these animals

mission 2 origin of whales - Jul 06 2023

web 12 when two groups of organisms independently evolve similar adaptations it s called convergent evolution sharks and whales both have streamlined bodies and tail flukes how do we know that these similarities are because of convergent evolution hint whales are tetrapods are sharks

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web whale whale has a much shorter and thicker humerus radius and ulna much longer metacarpals whale fin needs to be longer to help in movement through water thumbs are not necessary as they don t need to pick up and grasp things cat curved humerus shorter thinner humerus and ulna and radius smaller metacarpals and phalanges

g4 u4 l1 lesson 1 where did the whales come from - Nov 29 2022

web d have students discuss the answers for completeness and to hear about how others compare and contrast the fossil animals to today s animals iii whale evolution timeline a explain to students that a timeline is a way to show or map something that has happened whether in recent times or in the past b show powerpoint whale evolution

evolution library whale evolution pbs - Jun 24 2022

web the evolution of whales has been a mystery how did a large big brained mammal air breathing warm blooded giving birth to live young come to live entirely in water when mammals evolved

evolution of whales activities - Oct 29 2022

web jan 27 2023 description of the activity assignment for this written assignment the students outline the evolution of whales from land dwelling animals to aquatic beasts rather than an essay they produce a detailed outline of the major modifications that occurred during this transition such as hearing propulsion shape limbs and several

[whale genetics and evolution answers in genesis](#) - Feb 18 2022

web jul 3 2020 in the secular worldview the currently accepted whale evolution model is that the hippopotamus is the closest living relatives of whales but supposed early whales have little in common with hippos or living whales

the evolution lab answer key - Oct 09 2023

web the evolution lab answer key one small step 6 it helps them to see and catch prey above them in the water 7 d 8 this tree or an equivalent 9 c origin of whales 10 a 11 b 12 sample answer because sharks and whales are not closely related and did not inherit these traits from a common ancestor whales evolved from tetrapods sharks

[lab 27 whale evolution how are whales related to other mammals](#) - Aug 07 2023

web cetacea balaenopteridae humpback whale eschrichtiidae grey whale physeteridae sperm whale delphinidae dolphin monodontidae beluga whale phocoenidae porpoise sirenia dugongidae dugong trichechidae manatee proboscidea elephantidae elephant perissodactyla equidae horse tapiridae tapir rhinocerotidae rhinoceros artiodactyla

[lab5activity 3 whaleevolution lab 5 activity 3 whale evolution](#) - Sep 08 2023

web lab 5 activity 3 whale evolution time estimate 90 minutes the basics in this activity you will be constructing a phylogenetic tree using three different criteria habitat and diet skeletal morphology and dna sequencing before you begin go to nova labs and complete mission 1 training tree to learn how to build a phylogenetic tree

evidence of evolution goopenva - Apr 03 2023

web in this unit students will study the evolution of whales from four limbed land dwelling mammalian ancestors to modern two finned aquatic mammals through a virtual or in class simulation lab this activity will teach them more about how fossils homologous structures and dna analysis provide evidence for macroevolution evolutionary theory

whale evolution lab answers - Apr 22 2022

web whale evolution lab answers modified and using material from becoming whales experiencing whale evolution discoveries today students complete their simulated whale evolution lab using dna to search for the whale s closest living relative they will use classification groups and fossil homology to narrow the search down to a key family group

the evolution of whales understanding evolution - Jun 05 2023

web the evolution of whales the first thing to notice on this evogram is that hippos are the closest living relatives of whales but they are not the ancestors of whales in fact none of the individual animals on the evogram is the direct ancestor of any other as far as we know that s why each of them gets its own branch on the family tree

the evolution lab nova labs pbs - Dec 31 2022

web these worksheets contain questions for each level and video of the evolution lab and provide assessment on topics like cladograms fossil evidence of evolution dna and genetics biogeography

evolution nova labs pbs - Mar 22 2022

web in this lab you ll puzzle out the evolutionary relationships linking together a spectacular array of species explore the tree of life and get a front row seat to what some have called the

whale evolution web based lab studylib net - Aug 27 2022

web c this picture of whale evolution was about all we had until 1983 when the first of a series of discoveries began to fill the empty gap between land animals and whales that first discovery reported by whale specialist philip gingerich and others was pakicetus place the pakicetus strip 3 on the timeline

answer key whale evolution from land to water indiana - May 24 2022

web fill out the chart below with your answers to each structure by placing an x under the organism whose structure is more similar to the whale s structure fish cat x ears x eyes x lungs x forelimb x jaw x mammary gland 7

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similar to the whale s structure fish cat ears x eyes x lungs x forelimb x jaw x mammary gland x

Îles féroé wikiwand - Dec 07 2022

web les Îles féroé en féroïen føroyar ' f ø : ɹ j a ɹ en danois færøerne ' f ε ɐ , ø : ʔ e n ə sont l un des trois pays constitutifs du royaume de danemark avec le danemark propre et le groenland

groenland et Îles féroé au nord l indépendance à petits pas - Feb 09 2023

web apr 25 2018 groenland et Îles féroé au nord l indépendance à petits pas après des élections historiques le groenland doit former un nouveau gouvernement qui doit le mener vers l indépendance contrairement à l espagne avec la catalogne le danemark ne s y opposerait pas mais l immense île est très loin d être prête

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the elusive faroe islands and greenland live and let s fly - Jul 02 2022

web jun 2 2021 denmark faroe islands and greenland still difficult to reach for american tourists after europe re opens while i ve only seen pictures i consider the faroe islands to be one of the most beautiful treasures of earth it s also fairly off the beaten track in that tourist infrastructure is limited and most americans seem not to have heard

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les 7 faits fascinants sur les îles féroé forbes france - Oct 05 2022

web jan 22 2022 plus précisément les îles constituent une division administrative autonome du royaume du danemark à l instar du groenland pendant des centaines d années les îles féroé ont fait partie de la norvège jusqu à ce

le groenland et les îles féroé recevront la visite de leur reine en - Aug 03 2022

web jan 2 2021 depuis 1979 le groenland est une région autonome du danemark qui bénéficie d une grande indépendance indépendance qui s est encore renforcée en 2009 le continent laissant de nombreuses compétences à la gestion des

insulaires comme les îles féroé le groenland reste néanmoins attaché à la couronne danoise

greenland and the faroe islands udenrigsministeriet - Jan 08 2023

web nov 20 2014 the faroe islands and greenland are part of the kingdom of denmark as a main principle the danish constitution stipulates that the foreign and security interests for all parts of the kingdom of denmark are the responsibility of the danish government when 20 11 2014 on issues such as security policy european questions or the un there may

Îles féroé wikipédia - Aug 15 2023

web sous le nom d Îles féroé il est l un des trois pays constitutifs du royaume de danemark avec le danemark propre et le groenland les pointes septentrionales des îles de streymoy et eysturoy sont à peu près équidistantes de l Écosse et de l islande

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web danemark Îles fÉroÉ le petit futÉ 14 95 Îles fÉroÉ bradt travel guides 23 50 pays nordiques groenland Îles fÉroÉ

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web le groenland et les Îles féroé le danmark métropolitain est constitué de la presque île du jutland et des centaines d îles parsemées dans ses eaux territoriales dont les plus étendues sont la seeland la fionie et bornholm

traversée en ferry à bord du norröna island tours - Mar 30 2022

web jan 1 2022 il relie hirsthals au danmark à torshavn aux Îles féroé sa capacité est de 800 véhicules et 1482 passagers il permet de découvrir cet archipel perdu aux confins de l atlantique nord les véhicules sont alors débarqués les frais liés à cette traversée et les repas à bord du norröna ne sont pas compris dans les prix

greenland and the faroe islands the danish parliament - May 12 2023

web greenland and the faroe islands greenland and the faroe islands are neither members of the eu nor the european economic area eea despite the fact that they are closely tied to denmark as parts of the danish realm greenland and the faroe islands have their own history with the eu

pourquoi les îles féroé et le groenland pourraient décider du - Apr 30 2022

web oct 20 2022 les îles féroé et le danmark ont des économies distinctes les charges que je peux imposer aux électeurs danois en tant que membre du parlement n auraient aucun impact sur mes électeurs et les électeurs danois ne peuvent pas me remplacer

liste des îles du danmark wikipédia - Sep 04 2022

web présentation générale en excluant le groenland et les îles féroé le danmark compte 443 îles portant un nom dont 76 sont habitées de nouvelles îles sont parfois formées par sédimentation

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faroe islands wikipedia - Jul 14 2023

web the 2011 census shows that of the 48 346 inhabitants of the faroe islands 17 441 private households in 2011 43 135 were born in the faroe islands 3 597 were born elsewhere in the kingdom of denmark denmark proper or greenland and 1 614 were born outside the kingdom of denmark

découvrez les Îles féroé les îles intactes du nord visitdenmark - Nov 06 2022

web que faire aux îles féroé partez à la découverte des îles jouissez de la vue spectaculaire des sommets des montagnes respirez l air de l un des endroits les plus préservés du monde et découvrez la culture locale la plus authentique photo alessio mesiano

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web greenland and the faroe islands the faroe islands and greenland are part of the kingdom of denmark due to their special status nationally historically and geographically these parts of the realm have an extensive type of self government