

Name _____ Date _____

DOSAGE CALCULATION PRACTICE

1. A patient is sent home on captopril (Capoten), 6.25 mg PO bid. Her pharmacist dispenses 25 mg scored tablets. How many should the patient take for each dose?
2. You are providing home care for a patient who needs to mix her oral psyllium hydrophilic mucil-loid (Metamucil) in 180 mL of water or juice. She has only standard measuring cups in the house. How do you instruct her to take her dose?
3. You need to administer lorazepam (Ativan) 3 mg IM to an agitated patient. You have on hand 4mg/mL. How much do you prepare?
4. An IVPB of ranitidine (Zantac) 50 mg in 100 mL DSW is to run over 45 minutes. The tubing has a drip factor of 15. How many drops per minute should you deliver?
5. You have an order for Phenobarbital 50 mg PO at bedtime. It is supplied as Phenobarbital elixir 20 mg/5 mL. How much will you administer?

Medical Math Problems

Rebecca Hickey

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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The Medical Math Survival Guide Bryan Selvage, 2024-12-23 The Medical Math Survival Guide 500 Practice Scenarios The perfect companion to The Medical Math Survival Guide this comprehensive workbook delivers exactly what you need to transform knowledge into confidence Written by the same experienced paramedic each scenario is based on actual patient encounters including real world calculation errors that have been encountered in the field This workbook includes 500 unique practice scenarios 100 error detection challenges Find the Mistake scenarios based on actual medication errors Near miss case studies with analysis Documentation error identification exercises Common calculation pitfall examples Scenarios covering Basic drug calculations Weight based dosing Drip rates and titration Pediatric medications Critical care calculations Multi drug scenarios Complex resuscitations Error prevention strategies System failure analysis Root cause investigation Each problem includes Complete patient presentation Relevant clinical information Multiple calculation challenges Documentation practice Error detection exercises Reality check tips Common pitfall warnings Perfect for Self study Classroom instruction Competency verification Continuing education Field training programs Quality assurance training Risk management education Because finding someone else's mistake in practice means preventing your own in real life

Medical Mathematics and Dosage Calculations for Veterinary Professionals Robert Bill, 2009-08-11 This pocket size reference for using math in a veterinary setting provides set by step instructions for calculating dosages drip rates concentrations and other drug administration information From publisher *Henke's Med-Math* Susan Buchholz, Grace Henke, 2008-09-01 Now in its Sixth Edition this best selling text features a highly visual hands on approach to learning dosage calculations and principles of drug administration It presents step by step approaches to solving problems and includes dosage problems that simulate actual clinical experience Each chapter includes numerous examples self tests and proficiency tests This edition presents all four methods of calculation side by side ratio proportion formula and dimensional analysis New material on enteral feedings heparin infusions and insulin infusions is included Drug labels are current and problems use JCAHO approved abbreviations A handy quick reference plastic pull out card shows conversions and formulas

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 appropriate quantity of drug or solution that should be administered to patients Calculating drug dosages utilizing ratio proportion formula and dimensional analysis Systems of measurement including metric and apothecary and other conversion equivalents for a global audience The ins and outs of the

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Saunders Math Skills for Health Professionals Rebecca Hickey,2009-05 A study guide for health professions covering math skills Tasks for the Veterinary Assistant Paula Pattengale,2013-05-07 Tasks for the Veterinary Assistant is a step by step guide providing veterinary assistants with essential information on performing basic procedures accurately and efficiently Detailing the preparation procedure and follow up for basic veterinary skills this book is a concise reliable reference allowing quick access to how to instruction With chapters ranging from professional conduct and office procedures to medical nursing and surgical tasks Tasks for the Veterinary Assistant provides a comprehensive user friendly resource for veterinary support personnel **Basic Mathematics for the Health-related Professions** Lorraine J. Doucette,2000 This new resource clearly explains how to perform all the mathematics needed by today s health care professionals including drug dosage laboratory and quality assurance calculations Each chapter features introductory information and sample calculations readers can use to solve clinical problems Explores basic arithmetic fractions ratio and proportion significant figure systems of measurement dilutions and more Features separate chapters on each area of the laboratory as well as quality control quality assurance and method comparison Addresses the calculations necessary to comply with CLIA 88 requirements Reinforces calculation concepts with 5 10 detailed examples of math problems in each chapter Helps readers strengthen their calculation skills and avoid common mistakes with practice exercises throughout the text Answers are provided to offer users immediate feedback Provides examples of drug labels for dosage calculation problems Illustrates mathematical concepts with engaging 2 colour cartoons Highlights important concepts with chapter outlines and objectives **Kinn's Medical Assisting Fundamentals - E-Book** Brigitte Niedzwiecki,2021-10-21 Master the clinical and administrative competencies you need to succeed as a Medical Assistant Kinn s Medical Assisting Fundamentals 2nd Edition covers the administrative and clinical knowledge skills and procedures that are essential to patient care A reader friendly approach and focus on foundational content including medical terminology anatomy and physiology basic math calculations and soft skills provide a solid foundation for the key skills and procedures at the heart of Medical Assisting practice An applied learning approach organizes content around realistic case scenarios The 2nd edition adds coverage of intravenous procedures catheterization and limited scope radiography to address competencies approved in many states This practical text will prepare you to launch a successful Medical Assisting career Easy to understand writing style is appropriate for all levels of learners in all types of Medical Assisting programs Emphasis on foundational content includes in depth coverage of anatomy and physiology medical terminology basic math calculations and job readiness to build a strong base of knowledge Illustrated step by step procedure boxes demonstrate how to perform and document key administrative and clinical skills Content supports Medical Assisting certification test plans to help you prepare for board examinations Real world scenario in each

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Kinn's Medical Assisting Fundamentals Brigitte Niedzwiecki, Julie Pepper, P. Ann Weaver, 2018-08-31 Launch your Medical Assisting career with Kinn's Medical Assisting Fundamentals Administrative and Clinical Competencies with Anatomy RMA and CMAS from American Medical Technologist CCMA and CMAA from the National Healthcareer Association NCMA from the National Center for Competency Testing and CMAC from the American Medical Certification Association Emphasis on anatomy and physiology along with pathology signs symptoms diagnostic procedures and treatments enables you to meet key competencies Strong focus on medical terminology includes feature boxes that highlight chapter related medical terminology to help you learn word parts pronunciation and definitions Math exercises embedded throughout the text challenge you to sharpen your math skills Procedures are mapped to CAAHEP and ABHES accreditation standards down to the step offer rationales for each step and can be conveniently performed in the classroom Customer Service boxes in appropriate chapters help you develop the soft skills that employers seek when hiring Medical Assistants Applied learning approach introduces a case scenario at the beginning of each chapter and then revisits it throughout the chapter to help you understand new concepts as they are presented Chapter learning tools include vocabulary with definitions critical thinking applications and content that ties directly to the order of learning objectives Pharmacology glossary of the top 100 150 most common over the counter and prescription medications gives you quick access to pronunciation guides generic and trade names and drug classification

Foundations of Education: An EMS Approach National Association of EMS Educators (NAEMSE), 2019-07-15 The evolving field of emergency medical services EMS requires professional educators who are knowledgeable about teaching and learning strategies classroom management assessment and evaluation technology in learning legal implications in education program infrastructure design and administering programs of excellence to meet state and national accreditation guidelines Foundations of Education: An EMS Approach Third Edition provides EMS educators with the tools ideas and information necessary to succeed in each of these areas The content reflects how current educational knowledge and theory uniquely apply to EMS students educators and programs This textbook is used in the NAEMSE Instructor Courses and is an excellent reference for all EMS educators

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Evidence-Based Medicine for PDAs: A Guide for Practice Allan Platt, 2008-03-27

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

Introduction to Health Care & Careers Roxann DeLaet, 2020-05-20 Introduction to Health Care Careers provides students beginning their health care education with the fundamentals they need to develop their personal and professional skills understand their chosen profession and succeed in the world of health care

How to Make Successful Students in One Year - a Model for the World Nicholas Aggor, 2014-06-23 I wrote the book How To Make Successful Students In One Year A Model For The World as a true testament of real world academic success for parents teachers students school districts and governments of the world I used my skills as a very successful senior engineer with critical engineering quality controls and a very successful parent to design many practical innovations to help parents teachers students school districts and governments to make successful students starting from today The results from using this book are immediate effective significant and they work for all determined students of the world I recommend this book

for all parents teachers students school districts and governments of the world *The Complete Medical Assistant* Janet Sesser, Deborah L. Westervelt, 2020-07-01 The Complete Medical Assistant aligned with the latest CAHEEP and ABHES competencies is your source to transform engaged students into successful medical assistants **Student Success for Health Professionals Simplified** Laurie Kelly McCorry, Jeff Mason, 2020-02-20 Student Success for Healthcare Professionals Simplified helps students meet the demands and challenges of their studies by providing strategies for success in the classroom the lab the library and the internship site as well as sound advice and guidance for maintaining emotional and physical well being 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 **Kinn's The Clinical Medical Assistant - E-Book** Brigitte Niedzwiecki, Julie Pepper, 2019-10-08 More than any other product on the market the most successful Medical Assistants begin their careers with Kinn Trusted for more than 60 years Kinn s The Medical Assistant An Applied Learning Approach 14th Edition teaches you real world clinical skills essential for a career in the modern medical office always with a focus on application through unfolding case scenarios critical thinking questions procedure videos and interactive exercises The reorganized 14th edition features new authors and a chapter reviewing medical terminology and anatomy With an easy to read format and full continuum of separately sold adaptive solutions real world simulations EHR documentation experience and HESI remediation and assessment you ll learn the leading skills of modern medical assisting to prepare for certification and a successful career in the dynamic and growing Medical Assisting profession Comprehensive coverage of all clinical procedures prepares you for a wide variety of Medical Assisting careers 115 step by step illustrated procedures with rationales break down how to perform critical skills for practice Applied approach to learning helps you use what you ve learned in the clinical setting including case scenarios critical thinking exercises procedures videos and interactive online

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Forensic Mental Health Assessment Kirk Heilbrun, Geoffrey Marczyk, David DeMatteo, 2002-04-11 Forensic mental health assessments are evaluations conducted by individuals from different disciplines on a variety of questions in civil criminal and family law A growing number of mental health professionals including psychologists psychiatrists and social workers are being called upon to assess everything from an individual's competence to stand trial to the risk or threat of future violence and asked to weigh in on cases ranging from murder and assault to malpractice and child custody General principles have emerged to guide professionals conducting forensic mental health assessment Forensic Mental Health Assessment A Casebook illustrates those principles using relevant real world case material Built around actual case reports from expert forensic psychologists and psychiatrists the volume probes a broad range of legal questions through the detailed examination of more than 40 cases Topics include Miranda rights waiver competence to act as one's own attorney competence to stand trial juvenile commitment sanity at the time of the offense child custody termination of parental rights guardianship and malpractice This is the first casebook focusing specifically on forensic assessment It contains cases from a broad range of civil criminal and family legal questions described in case reports contributed by expert forensic psychologists and psychiatrists It will be useful for anyone involved in assessments for the courts and attorneys including psychologists psychiatrists social workers and attorneys

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