



HOW TO SOLVE DRUG CALCULATIONS

- Identify what type of drug calculation and as a first step, use common sense to estimate a rough answer. In many cases, drawing a picture that visually represents the problem is often a helpful strategy.
- Remember that a formula often used for working out how many tablets to take or for a drug taken orally or injected is:

$$\text{VOLUME REQUIRED} = \frac{\text{STRENGTH REQUIRED (SR)}}{\text{STOCK STRENGTH (SS)}} \times \frac{\text{VOLUME OF STOCK}}{1}$$

TIP: An easy way to remember this formula is
SUNRISE (SR)
SUNSET (SS)

- Remember that a formula often used to work out the number of drops per minute delivered by an intravenous infusion is:

$$\text{DRIP RATE (DPM)} = \frac{\text{VOLUME (mL)} \times \text{DROPS/mL}}{\text{TIME (h)} \times 60}$$

NOTE: DPM stands for *drops per minute*

- Remember that for intravenous infusion, sometimes you are asked to calculate volume, time, or rate, and the following formulae can be useful:

$$\text{VOLUME (mL)} = \text{RATE (mL/h)} \times \text{TIME (h)}$$

$$\text{RATE} = \frac{\text{VOLUME (mL)}}{\text{TIME (h)}}$$

$$\text{TIME} = \frac{\text{VOLUME (mL)}}{\text{RATE (mL/h)}}$$

- After applying the formula (if relevant), or calculating an exact answer using common sense, go back and check: is your final answer close to your initial estimate? If not, why not?

EXAMPLE 1: DRUG MADE UP FROM STOCK SOLUTION

This example illustrates how to work out injections or orally taken drugs made up from stock solution – for example, working out how many mLs to inject when the drug is in a stock solution.

QUESTION: A patient is ordered 70 mg of pethidine. Find the volume required if the stock solution contains 10g of pethidine per 200mL.

TO SOLVE: We'll be using this formula:

$$\text{VOLUME REQUIRED} = \frac{\text{STRENGTH REQUIRED (SR)}}{\text{STOCK STRENGTH (SS)}} \times \frac{\text{VOLUME OF STOCK}}{1}$$

- Note down the strength of medication the patient needs and the stock strength:
Strength Required is 70 mg, **Stock Strength** is 10g in 200 mL

At this point our rough answer is – More than 1 mL and a lot less than 200mL

- Since you need units to be the same, convert 10 g to mg by multiplying by 1000.
e.g. $1000\text{mg} \times 10 = 10,000\text{mg}$ ($10,000\text{mg} = 10\text{g}$)
- Now put the values into the above for.
Note that 70mg (what the patient needs) is a very small part of 10,000mg – so expect your answer in mL to be much less than 200mL.

$$\text{VOLUME REQUIRED} = \frac{70}{10000} \times \frac{200}{1} \text{ mL} = \frac{14000}{10000} = \frac{14}{10} \text{ mL} = 1.4\text{mL}$$

VISUAL REPRESENTATION

10,000mg
PETHIDINE

200mL
solution

CONVERSION TIP:

$\times 1,000$
g $\longleftrightarrow$ mg
 $\div 1,000$

ANSWER: Based on the above, your answer = 1.4mL

Study Guide For Drug Calculations

J Rink



Study Guide For Drug Calculations:

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 medication practice UPDATED Content matches the updates in the 12th edition of the McCuistion textbook Each chapter features helpful learning aids including a Study Questions section fill in the blank matching true false an NCLEX Review Questions section and a Case Studies section which includes traditional case studies as well as Next Generation NCLEX Exam NGN style case studies Authentic and current sample drug labels throughout mirror true to life practice in working with drug information Focus on safety includes a special icon that calls attention to questions related to the AACN Essentials priority of safe patient care Answers for all exercises are provided at the back of the book to facilitate self study with detailed rationales included for all application level questions and case study questions A drug calculation review chapter follows the outline of the corresponding textbook chapter offering you the opportunity to test your knowledge and skill in drug dosage calculation **Study Guide for Pharmacology - E-Book** Joyce LeFever Kee,Evelyn R. Hayes,Linda E. McCuistion,Nancy Haugen,2014-09-24 Corresponding to the chapters in Kee s Pharmacology A Patient Centered Nursing Process Approach 8th Edition this study guide offers practical activities to help you review and remember essential nursing pharmacology Hands on exercises include study questions case studies and NCLEX review questions making it easier to apply your knowledge to clinical practice and develop clinical reasoning skills NCLEX review questions in each chapter include application level questions and alternate item format questions Case studies enhance your understanding of nursing responsibilities in therapeutic pharmacology Medications and Calculations chapter offers additional opportunities to test your knowledge and skill in drug dosage calculation 75 sample drug labels familiarize you with the real labels you will see in clinical practice Answers for all exercises are provided at the back of the book to make studying easier Study questions are provided in formats including matching completion and crossword puzzles NEW Updated content reflects the changes to Kee s Pharmacology textbook NEW Case study questions focus on developing your clinical reasoning skills NEW Rationales are added to the answer key for selected application level questions and case study questions NEW safety icons emphasize the nurse s role in patient safety NEW Case studies now feature open ended questions to promote development of clinical reasoning skills **Study Guide for Pharmacology** Joyce LeFever Kee,Evelyn R.

Hayes, Linda E. McCuistion, 2014-01-30 This study guide contains a variety of exercises specifically designed to reinforce content presented in the textbook Chapter worksheets feature more than 1800 study questions 160 drug calculation and dosage problems and case based critical thinking exercises **The Complete PCAT Study Guide** Pasquale De Marco, 2025-07-10 Aspiring pharmacists your journey to success begins with The Complete PCAT Study Guide This comprehensive guide is meticulously crafted to empower you with the knowledge skills and strategies you need to excel in the PCAT navigate the pharmacy school application process and thrive in the dynamic field of pharmacy Within these pages you ll find an in depth exploration of the PCAT the standardized exam that serves as a gateway to pharmacy school Our expert guidance demystifies the exam s structure content and scoring system providing you with a clear roadmap for effective preparation Master the biological sciences organic and inorganic chemistry and quantitative abilities with our comprehensive review sections designed to strengthen your foundation and boost your confidence on exam day Beyond the PCAT The Complete PCAT Study Guide delves into the intricacies of pharmacy practice encompassing various specializations career opportunities and the personal qualities essential for success Discover the diverse roles of pharmacists in modern healthcare from community pharmacies to hospital settings and gain insights into the exciting possibilities that await you in this ever evolving field Learn about the rewarding career paths available including clinical pharmacy research academia and more As you progress through the chapters you ll uncover practical tips for navigating the pharmacy school application process securing financial aid and scholarships and adjusting to the rigors of pharmacy education We provide valuable advice on selecting the right program participating in extracurricular activities and building a strong network of peers and mentors Our guidance extends beyond the classroom offering strategies for developing strong communication and professional skills essential for effective patient interactions and collaboration with healthcare teams The Complete PCAT Study Guide also keeps you abreast of the latest technological advancements shaping pharmacy practice Explore the impact of pharmacy informatics and data analytics on patient care and learn how to navigate the regulatory and legal aspects of the profession Stay informed about emerging trends and innovations ensuring you re well prepared for the ever changing landscape of pharmacy Whether you re a high school student contemplating a career in pharmacy a pre pharmacy student seeking direction or a current pharmacy student aiming for success The Complete PCAT Study Guide is your indispensable companion With its comprehensive coverage expert insights and motivating tone this book will empower you to confidently pursue your passion for pharmacy and make a positive impact on the healthcare landscape If you like this book write a review [Certified Medication Aide Study Guide 2025-2026](#) Rosetta Hope Patton ,Kellen Blondie Stephens, Master Your Medication Aide Certification Exam with 625 Practice Questions Ace your Certified Medication Aide CMA or Qualified Medication Aide QMA certification exam with the most comprehensive practice question workbook available for 2025 2026 This complete study guide delivers 625 realistic exam questions with detailed answer explanations designed to build your

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Study Guide for Pharmacology and the Nursing Process Linda Lane Lilley, PhD RN, 2016-01-02 Prepare for success in pharmacology and on the NCLEX Examination with the Study Guide for Pharmacology and the Nursing Process 8th Edition Designed to accompany Lilley s Pharmacology and the Nursing Process 8th Edition textbook this workbook features worksheets for each chapter that include NCLEX RN r Examination style review questions critical thinking and application questions case studies and other educationally sound learning activities Chapter by chapter worksheets are divided into 3 main sections Chapter Review and NCLEX Examination Preparation Critical Thinking and Application and Case Study Focus on prioritization features at least one prioritization exercise in which the reader must evaluate a clinical scenario and answer the question What is the nurse s best action Overview of dosage calculations section contains explanations of key drug calculations concepts sample drug labels practice problems and a practice quiz Answers for all exercises are provided at the back of the book to facility self study Learning strategies expands upon the unique cartoon illustrated study strategies included in the Lilley text NEW Expanded NCLEX focus includes one to two additional NCLEX Examination style questions for each chapter including additional alternate item format types Chapter review and NCLEX Examination preparation included in each chapter worksheet contains a number of application based

NCLEX practice questions including at least one alternate item question per chapter NEW Updated content is completely current and consistent with the Lilley textbook

Study Guide for Pharmacology for Nursing Care - E-Book Jacqueline Burchum, Laura Rosenthal, Jennifer J. Yeager, 2013-12-24 Complex pharmacologic information is simple to learn with this complete study resource Designed to accompany Pharmacology for Nursing Care critical thinking study questions case studies and patient teaching scenarios connect pharmacology concepts with their impact on patient care Plus an emphasis on priority nursing care with NCLEX examination style review questions prepares you for success on the exam An emphasis on the key information that nursing students need to know NCLEX Examination style questions for each chapter in a variety of study review formats Case Study scenarios provide true to life practice in responding to clinical situations that are typical of contemporary medication therapy Implications of drugs and drug classes for patient care Highlighted application level questions help you integrate other nursing knowledge such as developmental considerations laboratory values and symptoms of adverse effects Critical thinking prioritization and delegation questions More questions dedicated to prioritization and delegation Increased variety of question types includes matching true false completion and other formats Decreased emphasis on questions that require lengthy free text responses Shortened question scenarios more closely resemble NCLEX Examination questions Reorganization of chapters breaks content into four sections Study Questions matching true false completion etc Critical Thinking Prioritization and Delegation Questions multiple choice multiple select Dosage Calculation Questions Case Studies Answer key now included in printed Study Guide

Study Guide for Understanding Nursing Research E-Book Susan K. Grove, Jennifer R. Gray, Christy Bomer-Norton, 2018-09-17 Designed to reinforce your understanding through hands on work with high quality published studies the Study Guide for Understanding Nursing Research 7th Edition provides both time tested and innovative exercises for each chapter in the Grove Gray textbook This new edition includes an expanded focus on evidence based practice with each chapter featuring Terms and Definitions Linking Ideas Web Based Activities and Conducting Critical Appraisals to Build an Evidence Based Practice The Study Guide is built around three high quality published research studies located in the appendices and referenced throughout the book These full text articles selected for particular relevance to you will help you better understand the research and evidence based practice processes and help you learn to appraise and apply research findings to clinical settings Time tested and innovative exercises include brief Introductions Key Terms exercises Key Ideas exercises Making Connections exercises Exercises in Critical Appraisal and Going Beyond exercises to promote in depth learning for a variety of learning styles Answer key allows you to check your understanding and learn from your mistakes formative assessment Quick reference printed tabs have been added to differentiate the answer key and each of the book s three published studies appendices four tabs total for improved navigation and usability Learning activities for each textbook chapter reinforce key concepts and guide you in application to evidence based clinical practice NEW Increased emphasis on evidence based practice

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