

**Sheet 2 PRACTICE MATH PROBLEMS**

1. Order: Regular Insulin 100 units at 5 units/hr

Pharmacy: 100 units/500 mL NS  

$$\frac{\text{mL}}{\text{hr}} = \frac{500\text{mL}}{100\text{ units}} \times \frac{5\text{ units}}{\text{hr}} = \mathbf{25\text{ mL/hr}}$$

2. Order: Lidocaine 2mg/min

Pharmacy: 2 g in 500 mL D5W  

$$\frac{\text{mL}}{\text{hr}} = \frac{500\text{ mL}}{2\text{ g}} \times \frac{1\text{ g}}{1000\text{mg}} \times \frac{2\text{ mg}}{\text{min}} \times \frac{60\text{ min}}{\text{hr}} = \mathbf{30\text{ mL/hr}}$$

3. Order: Dobutamine 10mcg/kg/min

Pharmacy: 250mg/250mL and tubing 60gtt/mL  
 Weight: 143 #  

$$\frac{\text{gtt}}{\text{Min}} = \frac{60\text{ gtt}}{\text{mL}} \times \frac{250\text{ mL}}{250\text{ mg}} \times \frac{1\text{ mg}}{1000\text{mcg}} \times \frac{10\text{ mcg}}{\text{kg/min}} \times \frac{1\text{ kg}}{2.2\#} \times \frac{143\#}{1} = \mathbf{39\text{ gtt/min}}$$

4. Order: Dopamine at 3mcg/kg/min.

Pharmacy: 800mg/250mL D5W  
 Weight: 158 #  

$$\frac{\text{mL}}{\text{hr}} = \frac{250\text{ mL}}{800\text{ mg}} \times \frac{1\text{ mg}}{1000\text{mcg}} \times \frac{3\text{ mcg}}{\text{kg/min}} \times \frac{1\text{ kg}}{2.2\#} \times \frac{158\#}{1} \times \frac{60\text{ min}}{\text{hr}} = \mathbf{4\text{ mL/hr}}$$

5. Order: Dobutamine at 650mcg/min

Pharmacy: 250mg/500mL D5W  

$$\frac{\text{mL}}{\text{hr}} = \frac{500\text{ mL}}{250\text{ mg}} \times \frac{1\text{ mg}}{1000\text{mcg}} \times \frac{650\text{ mcg}}{\text{min}} \times \frac{60\text{ min}}{1\text{ hr}} = \mathbf{78\text{ mL/hr}}$$

6. Order: Ticardilin 500 mg q 6 hour

Pharmacy: 1g/75mL over 45 minutes  
 Tubing: 15gtt/mL  

$$\frac{\text{gtt}}{\text{Min}} = \frac{15\text{ gtt}}{\text{mL}} \times \frac{75\text{ mL}}{1\text{ g}} \times \frac{1\text{ gm}}{1000\text{mg}} \times \frac{500\text{ mg}}{45\text{ min}} = 12.5 = \mathbf{13\text{ gtt/min}}$$

7. Order: Methicillin 1 g every 6 hr

Pharmacy: 1 g/100mL over 30 minutes  
 Tubing: 10gtt/mL  

$$\frac{\text{gtt}}{\text{Min}} = \frac{10\text{ gtt}}{\text{mL}} \times \frac{100\text{ mL}}{30\text{ min}} = 33.3 = \mathbf{33\text{ gtt/min}}$$

8. Order: Ciprofloxacin 250mg every 12 hrs

Pharmacy: 250 mg/250mL over 60 minutes  

$$\frac{\text{mL}}{\text{hr}} = \frac{250\text{ mL}}{250\text{ mg}} \times \frac{250\text{ mg}}{60\text{ min}} \times \frac{60\text{ min}}{1\text{ hr}} = \mathbf{250\text{ mL/hr}}$$

9. Order: NS 1L over 6 hours

Started at 0300 and at 0530 you notice that 280 mL has infused on pump  

$$\frac{1000\text{mL}}{6\text{ hr}} = \mathbf{167\text{ mL/hr}}$$
       $1000\text{mL} - 280 = 720\text{ mL left to infuse over 3.5 hours (should have 417.5mL in)}$   

$$\frac{\text{mL}}{\text{hr}} = \frac{720\text{mL}}{3.5\text{ hr}} = \mathbf{205.7\text{ mL/hr}}$$

# Insulin Math Practice Problems

**Lorraine Zentz**



## **Insulin Math Practice Problems:**

Math for Pharmacy Technicians Lorraine Zentz, 2010-08-15 Math for Pharmacy Technicians is an introductory text covering the key math skills needed for Pharmacy Technicians This text is an essential resource for both Pharmacy Technician students and practicing Pharmacy Technicians Presented in a simple and clear manner students will find numerous solved problems and a step by step format that allows for quick comprehension Key features include practice problems with answers written procedures boxes with tips exercises and chapter quizzes to reinforce student learning Instructor Resources PowerPoints and Pre and Post Test Answers Student Resources Companion Website Essential Math and Calculations for Pharmacy Technicians Indra K. Reddy, Mansoor A. Khan, 2017-09-06 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 **Calculation of Drug Dosages** Caroline Peterson Janney, Jane Flahive, 1996 *Clinical Calculations* Joyce LeFever Kee, Sally M. Marshall, 2016-01-25 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 includes practice problems not only for general care but also for specialty areas such as pediatrics and critical care A new chapter covers insulin administration and concise illustrated information includes the latest medications drug administration techniques and devices Written by a team of experts led by Joyce Kee Clinical Calculations makes it easy to understand drug calculation and emphasizes patient safety above all else Coverage of all four major drug calculation methods ratio proportion formula fractional equation and dimensional analysis allows you to apply the method that works best for you Updated information on drug administration techniques and devices helps you master the latest techniques of drug administration including oral intravenous intra muscular subcutaneous and other routes Updated

drug information ensures you are familiar with the most commonly used drugs in clinical practice Caution boxes alert you to problems or issues related to various drugs and their administration Information on infusion pumps enteral single multi channel PCA and insulin helps you understand their use in drug administration Calculations for Specialty Areas section addresses the drug calculations needed to practice in pediatric critical care labor and delivery and community settings Detailed full color photos and illustrations show the most current equipment for IV therapy the latest types of pumps and the newest syringes A comprehensive post test allows you to test your knowledge of key concepts from the text NEW Insulin Administration chapter provides a guide to administering injectable drugs NEW practice problems drugs drug labels and photos keep you up to date with today s clinical practice NEW Updated QSEN guidelines and The Joint Commission standards help in reducing medication errors and in providing safe patient care

**Calculate with Confidence, Canadian Edition - E-Book** Deborah C. Morris,2016-05-18 SI units and generic Canadian drug names throughout NCLEX format questions on Evolve to help prepare for the type of questions you will see on the NCLEX RN Examination Real world examples and practice problems throughout the text Strong emphasis on safety throughout *Clinical Calculations - E-Book* Joyce LeFever Kee,Sally M. Marshall,Mary Catherine Forrester,Kathryn Woods,2020-06-12 NEW Updated information on Antidiabetic Agents orals and injectables has been added throughout the text where appropriate NEW Updated content on Anticoagulant Agents is housed in an all new chapter NEW Colorized abbreviations for the four methods of calculation BF RP FE and DA appear in the Example Problems sections NEW Updated content and patient safety guidelines throughout the text reflects the latest practices and procedures NEW Updated practice problems across the text incorporate the latest drugs and dosages *Nursing Math Simplified* Susan Garner Moore,2002 **Math for Nurses** Mary Jo Boyer,Elaine Dreisbaugh,2002 Now in its Fifth Edition this compact portable and easy to use pocket guide provides reference to dosage calculations and drug administration Using a step by step approach frequent examples are provided to illustrate problem solving and practical application skills Contains a review of math skills measurement systems and drug calculations and preparations including dimensional analysis New features include practice problems a chapter on drug calculations with drug labels and a pullout card with basic equivalents conversion factors and math formulas End of chapter reviews encourage reader practice Details on special population considerations given in the pediatric and geriatric chapters A great undergraduate resource

**Calculate with Confidence E-Book** Deborah C. Morris,2021-09-30 Selected for Doody s Core Titles 2024 in Pharmacology Learn how to make accurate drug calculations and administer medications safely Calculate with Confidence 8th Edition makes it easy to understand the three major methods of dosage calculation ratio and proportion formula method and dimensional analysis Clear step by step instructions guide you through accurate calculation and safe administration of drug dosages Thousands of practice problems ensure that you gain proficiency QSEN principles prioritize client safety and an emphasis on clinical reasoning helps you prevent medication errors New Next Generation NCLEX NGN

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**Math for Nurses** Mary E. Stassi, Kaplan, Margaret A. Tiemann, Margaret Tiemann, 2009-08-04 Math for Nurses is a convenient pocket guide developed just for today's busy healthcare professional Whether you're new to nursing or have many years of experience you'll benefit from the way each chapter breaks down math concepts through step by step explanations practice questions chapter quizzes and in depth answer keys You can use this book as a review for certification or licensing examinations or as a go to reference in your workplace Inside you will find A wallet sized pull out measurement and conversions chart Examples and problems featuring oral IV and parenteral medication administration Easy to follow examples and step by step explanations Chapter quizzes with in depth answer keys for immediate feedback Key mathematical terms and their definitions Kaplan Nursing and Kaplan University School of Nursing offer a wide variety of programs for pre licensure and post licensure nurses Each year millions of students reach out to Kaplan to help meet their educational and professional goals

**Calculate with Confidence** Deborah C. Gray Morris, 2013-09-24 This popular text covers the ratio and proportion formula and dimensional analysis methods offering a step by step approach to the calculation and administration of drug dosages With over 2 000 practice problems Gray Morris focuses on enhancing the learning experience of nursing students at all curricular levels by making content clinically applicable Calculate with Confidence 6th Edition addresses the increasing responsibility of the nurse in medication administration prioritizes client safety and reflects the current scope of practice Tips for Clinical Practice boxes call attention to information critical to math calculation and patient safety Safety Alert boxes highlight issues that may lead to medication errors and empower you to identify actions that must be taken to avoid calculation errors Chapter review problems test all major topics presented in the chapter Separate basic math review test allows you to assess and evaluate your understanding of basic math material covered in Unit 1 directing you to

review chapters if you miss any of these test questions Pre test basic math review tests help you assess your basic math skills and identify areas of strength and weakness in competency of basic math Comprehensive unit on basic math review offers complete coverage of basic math roman numerals fractions decimals ratio and proportion and percentages NEW Integration of QSEN information related to patient safety in the Medication Administration chapter and throughout text NEW NCLEX style questions on Evolve help prepare you for the NCLEX RN Examination NEW Content additions and updates includes word problems involving dosages Critical Thinking Scenarios a discussion of the concepts regarding safety issues with medication administration plus significant updates in the insulin critical care and IV chapters NEW Reorganization of Answer Key features answers and the work to practice problems at the end of each chapter rather than in the back of the book

**Dosages and Solutions** Emily F. Cornett, Dorothy M. Blume, 1991 With expanded exercises and practical problems this revised fourth edition 1984 programmed learning guide and classroom text provides a practical approach to the preparation of drug dosage and solution calculations Annotation copyrighted by Book News Inc Portland OR Calculation of Drug Dosages Sheila J. Ogden, 2003 This popular dosage calculation work text helps students master the critical skills necessary to competently and confidently calculate drug dosages Innovative and practical it includes information on the ratio and proportion formula and dimensional analysis methods of drug calculation and numerous practice problems to accompany these methods Ideal for students who need an extensive math review in addition to drug calculations content this new edition features a more logical organization a new chapter addressing medication administration to critically ill patients and more practice problems on calculations for pediatric patients **Gazette - Australian Mathematical Society** Australian

Mathematical Society, 1987 **Computers and Quantitative Approaches to Diabetes** J. Schrezenmeir, Jürgen Schrezenmeir, E. W. Kraegen, 1990 **Sterile Compounding for Pharm Techs--A text and review for Certification** Kristy Malacos, Denise Propes, 2014-10-22 PREPARE SAFE AND QUALITY STERILE PRODUCTS IN ANY PRACTICE ENVIRONMENT Sterile Compounding for Pharmacy Technicians Training and Review for Certification is an essential resource for students in pharmacy technician programs and for technicians requiring training for IV certification or employment It is designed to teach student technicians important theory and concepts of sterile compounding and to keep seasoned practitioners current with the ever changing regulatory standards as well as the many new products and technologies designed to minimize contamination and improve quality Sterile Compounding for Pharmacy Technicians Training and Review for Certification is enhanced by easy to follow instructional charts and illustrations Each chapter includes discussion questions laboratory exercises practice questions and PTCB style review questions In addition a sterile compounding final exam is included to provide a complete review of the text INTRODUCTION TO STERILE COMPOUNDING EQUIPMENT AND SUPPLIES FOR STERILE COMPOUNDING QUALITY CONTROL AND ASSURANCE PHARMACY CALCULATIONS ASEPTIC TECHNIQUE STERILE PRODUCT PREPARATION TPN CHEMOTHERAPY AND TECHNOLOGY IN

THE PHARMACY     Mathematical Reviews ,2007     *Grade Aid Workbook with Practice Tests* Denise Ann Bodman,Carol Lynn Martin,Richard Fabes,2005-07-18     **Mathematical Biosciences** ,1969     *Collaborative Practice* Robbie W. Tourse,Jean Mooney,1999-07-30 Tourse Mooney and their contributors argue that schools alone can no longer meet the complex needs of children and adolescents The overwhelming needs of school children require that schools institute massive coordinated and collaborative efforts among various disciplines and agencies The authors propose a restructuring of schools and social service systems to respond to the needs for interprofessional collaboration While they focus primarily on the collaboration of social work and education they look beyond that to relationships with other allied disciplines in public schools and explore collaborative linkages with nursing law counseling pastoral counseling and other agents of society The collection culminates with an examination of the realities of interprofessional collaboration in urban and suburban communities This is an important guide for researchers policy makers and professional educators involved with school reform and systems change in the United States

This book delves into Insulin Math Practice Problems. Insulin Math Practice Problems is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Insulin Math Practice Problems, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Insulin Math Practice Problems
- Chapter 2: Essential Elements of Insulin Math Practice Problems
- Chapter 3: Insulin Math Practice Problems in Everyday Life
- Chapter 4: Insulin Math Practice Problems in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Insulin Math Practice Problems. The first chapter will explore what Insulin Math Practice Problems is, why Insulin Math Practice Problems is vital, and how to effectively learn about Insulin Math Practice Problems.

3. In chapter 2, the author will delve into the foundational concepts of Insulin Math Practice Problems. This chapter will elucidate the essential principles that must be understood to grasp Insulin Math Practice Problems in its entirety.

4. In chapter 3, this book will examine the practical applications of Insulin Math Practice Problems in daily life. The third chapter will showcase real-world examples of how Insulin Math Practice Problems can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Insulin Math Practice Problems in specific contexts. The fourth chapter will explore how Insulin Math Practice Problems is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Insulin Math Practice Problems. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Insulin Math Practice Problems.

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