

# MEDICATION MATH CHEAT SHEET

## Weight-Based Dosage Calculations

- **Formula:**  $\text{Dose} = (\text{Weight in kg}) \times (\text{Dose ordered per kg})$
- **Conversion:** 1 kg = 2.2 lbs
- **Pediatric Dosage Formula:**  $(\text{Weight in kg}) \times (\text{Safe Dose Range per kg})$
- **Safety Tip:** Double-check for pediatric and geriatric patients



## Injection Calculations

- **Formula:**  $\text{Dose} = (\text{Desired Dose} \div \text{Available Dose}) \times \text{Volume}$
- **Example:** Ordered 100 mg, Available 50 mg/mL  $\rightarrow (100 \div 50) \times 1 = 2 \text{ mL}$
- **Insulin Calculation:**  $(\text{Blood Sugar} - \text{Target Blood Sugar}) \div \text{Sensitivity Factor}$
- **Safety Tip:** Verify medication concentration and route (IM, SubQ, IV)



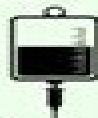
## Tablet/Pill Dosage Calculations

- **Formula:**  $\text{Tablets Needed} = \text{Dose Ordered} \div \text{Dose Available}$
- **Divided Dose Formula:**  $\text{Total Daily Dose} \div \text{Number of Doses per Day}$
- **Safety Tip:** Confirm pill strength and avoid crushing unless indicated



## IV Drug Calculations

- **Flow Rate Formula:**  $\text{mL/hr} = \text{Total Volume (mL)} \div \text{Time (hr)}$
- **Drop Rate Formula:**  $\text{gtt/min} = (\text{Total Volume} \times \text{Drop Factor}) \div \text{Time (min)}$
- **Infusion Time:**  $\text{Time (hr)} = \text{Total Volume} \div \text{Flow Rate (mL/hr)}$
- **Safety Tip:** Monitor for signs of infiltration and adverse reactions



## Liquid Medication Calculations

- **Formula:**  $\text{Volume Needed} = (\text{Desired Dose} \div \text{Available Dose}) \times \text{Available Volume}$
- **Pediatric Liquid Dosage:**  $(\text{Weight in kg}) \times (\text{Safe Dose Range per kg}) \div \text{Frequency}$
- **Safety Tip:** Use calibrated devices for accurate measurement



## Key Conversions

- 1 tsp = 5 mL
- 1 tbsp = 15 mL
- 1 oz = 30 mL
- 1 kg = 2.2 lbs
- 1 L = 1000 mL
- 1 grain = 60 mg



## Abbreviations

- **BID** = Twice a day
- **TID** = Three times a day
- **QID** = Four times a day
- **PRN** = As needed
- **AC** = Before meals
- **PC** = After meals

## Rounding Guidelines

- Round to the nearest tenth for liquids (e.g., 2.76 mL  $\rightarrow$  2.8 mL)
- Round to the nearest whole number for tablets (e.g., 1.4 tablets  $\rightarrow$  1 tablet)
- IV Rates: Round to the nearest whole number unless specified otherwise

## Important Formulas

- $\text{Desired Dose} \div \text{Available Dose} \times \text{Quantity} = \text{Amount to Administer}$
- $\text{mg/kg/day} = \text{Total Daily Dose Based on Weight}$
- $\text{IV Push Rate} = \text{Total mL} \div \text{Recommended Time (min)}$



## Safety Reminders

- Always double-check calculations and medication orders
- Document time, dose, route, and patient response accurately
- Confirm patient allergies before administration
- Label all syringes and IV lines properly



# Pediatric Medications And Dosages Math Study Guide

**Theodora Andrews**



## **Pediatric Medications And Dosages Math Study Guide:**

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**Programmed Mathematics of Drugs and Solutions** Virginia Poole Arcangelo, 1999 This work can be used as a self paced introduction to the mathematics of drug dosages or as a quick refresher a hands on guide that aims to deliver everything needed to build up dosage calculation skills Organized for self assessment the text s 14 chapters move from simple to complex material covering basic arithmetic the metric and household systems of measurement and their equivalents and correct interpretation of drug labels Calculation exercises cover basic oral dosing parental and intravenous medications and finally the delicate area of paediatric dosing [Kinn's The Medical Assistant - E-Book](#) Deborah B. Proctor, Alexandra Patricia Adams, 2014-03-27 The most comprehensive medical assisting resource available Kinn s The Medical Assistant 11th Edition provides unparalleled coverage of the practical real world administrative and clinical skills essential to your success in health care Kinn s 11th Edition combines current reliable content with innovative support tools to deliver an engaging learning experience and help you confidently prepare for today s competitive job market Study more effectively with detailed Learning Objectives Vocabulary terms and definitions and Connections icons that link important concepts in the text to corresponding exercises and activities throughout the companion Evolve Resources website and Study Guide Procedure Checklist Manual Apply what you learn to realistic administrative and clinical situations through an Applied Learning Approach that integrates case studies at the beginning and end of each chapter Master key skills and clinical procedures through step by step instructions and full color illustrations that clarify techniques Confidently meet national medical assisting standards with clearly identified objectives and competencies incorporated throughout the text Sharpen your analytical skills and test your understanding of key concepts with critical thinking exercises Understand the importance of patient privacy with the information highlighted in helpful HIPAA boxes Demonstrate your proficiency to potential employers with an interactive portfolio builder on the companion Evolve Resources website

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*Schaum's Outline of Mathematics for Nurses* Larry Stephens, Lana C. Stephens, Eizo Nishiura, 2002-12-10 Tough Test Questions Missed Lectures Not Enough Time Fortunately for you there's Schaum's Outlines More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams Schaum's is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum's highlights all the important facts you need to know Use Schaum's to shorten your study time and get your best test scores Schaum's Outlines Problem Solved

*Dosage Calculations and Basic Math for Nurses Demystified, Second Edition* Jim Keogh, 2015-06-22 The Demystified way to master dosage calculations and related basic math Written by a graduate nurse instructor and bestselling author *Dosage Calculations and Basic Math for Nurses Demystified Second Edition* covers medication orders and medication labels and explains how to calculate doses using the formula method and the ratio proportion method Readers will get details on I V calculations pediatric doses and enteral tube feeding The book also covers dosage calculations for commonly prescribed drugs including Heparin and dopamine Hundreds of examples make it easy to understand the material and NCLEX style practice questions help reinforce learning *Dosage Calculations and Basic Math for Nurses Demystified* is made more valuable by a concise review of basic math skills essential for daily practice including equations percentages proportions decimals and fractions Simple enough for a beginner but challenging enough for an advanced student *Dosage Calculations and Basic Math for Nurses Demystified* is the fun fast and effective way to learn this vital nursing skill Includes coverage of I V therapy Measurements in SI units for international appeal A time saving approach to performing better on an exam or at work

**Pharmacology** Joyce LeFever Kee, 1993 *Guide to the Literature of Pharmacy and the Pharmaceutical Sciences* Theodora Andrews, 1986 Compilation of 958 sources intended primarily for librarians Author title and subject indexes

**Dosage Calculations** Gloria D. Pickar, 1993 **Study Guide for Pharmacology** Joyce LeFever Kee, Evelyn R. Hayes, Linda E. McCuiston, 2008-10 This book accompanies the text *Pharmacology A Nursing Process Approach* sixth edition and may also be used independently of the text Preface

*Calculation of Drug Dosages* Caroline Peterson Janney, Jane Flahive, 1996      *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      *The Journal of Practical Nursing* ,1988      *Dosage and Solutions Calculations* Alice J. Smith, 1989      **Managing Attention Disorders in Children** Sam Goldstein, Michael Goldstein, 1990-01-22 Presents practitioners with a comprehensive guide for understanding attention deficit hyperactivity disorder a complex affliction characterized by inattention overarousal hyperactivity and impulsivity Includes a comprehensive overview of the problems encountered by children as well as approaches to school intervention Examines all aspects of evaluation and treatment and offers a model for assessment and a well defined set of guidelines for multidisciplinary treatment services for children with attention disorder and their families Also provides a guide for the prescription and management of medications

**McGraw-Hill's NAPLEX Review Guide** S. Scott Sutton, 2012-09-01 Everything you need to pass the NAPLEX comprehensive study material and two practice exams in one student reviewed package Written by an instructor who has taught thousand of students this all in one study guide was developed and reviewed by pharmacists faculty students and recent graduates so you know it contains only the most relevant up to date content You ll find valuable foundational material and chapter ending case application questions that cover every key topic included on the NAPLEX Two downloadable practice tests with a total of 370 questions allowing you to pinpoint your weaknesses Includes Coverage that is organized around the NABP competencies and designed to sharpen problem solving skills put must know information at your fingertips and improve exam taking ability More than 1400 case application questions each with a detailed explanation of both correct and incorrect answer choices Takeaway Points at the end of every chapter that summarize key concepts Two complete downloadable practice tests each with 185 questions      *Directory of Educational Software* Christine Bolwell, 1993

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