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## Pediatric Medication Math Practice Worksheet

Complete the problems. Show all work using dimensional analysis. Label the answer.

Round gts to the nearest whole number; round everything else to the nearest tenth (one decimal point).

1. Calculate the maintenance fluid requirements per day for Laura whose weight is 21.78 lbs.

$$\frac{21.78 \text{ lbs}}{2.2 \text{ lbs}} = 9.9 \text{ kg} \quad 100 \text{ mL} \times 9.9 \text{ kg} = \boxed{990 \text{ mL} / 24 \text{ hrs}}$$

- a. If Laura was NPO and needed to receive all these maintenance fluids IV, what would you expect the order to read for her IV rate?

$$\frac{990 \text{ mL}}{24 \text{ hrs}} = 41.25 \quad \boxed{= 41.3 \text{ mL/hr}}$$

2. Calculate the maintenance fluid requirements per hour for Monica whose weight is 6.6 kg.

$$100 \text{ mL} \times 6.6 \text{ kg} = 660 \text{ mL} / 24 \text{ hrs}$$

$$\frac{660 \text{ mL}}{24 \text{ hr}} \quad \boxed{= 27.5 \text{ mL/hr}}$$

3. Xavier is 32 kg. Calculate his daily fluid requirement.

$$\begin{aligned} 100 \text{ mL} \times 10 \text{ kg} &= 1000 \text{ mL} / 24 \text{ hrs} \\ 50 \text{ mL} \times 10 \text{ kg} &= 500 \text{ mL} / 24 \text{ hrs} \\ 20 \text{ mL} \times 12 \text{ kg} &= 240 \text{ mL} / 24 \text{ hr} \end{aligned}$$

$$\boxed{1740 \text{ mL} / 24 \text{ hr}}$$

- a. What would Xavier's IV rate be ordered at if he were NPO?

$$\frac{1740 \text{ mL}}{24 \text{ hr}} \quad \boxed{= 72.5 \text{ mL/hr}}$$

# Med Math Pediatric Practice Questions

**Bonnie J. Stevens, Gareth  
Hathway, William T. Zempsky**



## **Med Math Pediatric Practice Questions:**

Math for Healthcare Professionals: Dosage Calculations and Fundamentals of Medication Administration Nancy DiDona, 2010-10-22 Math for Healthcare Professionals Dosage Calculations and Fundamentals of Medication Administration builds upon a student's existing basic math skills and teaches them the more complex solving calculations that are representative of today's healthcare practice. The foundation for learning to calculate dosages and intravenous administration will be based on the ratio and proportion model which also adapts to the dimensional Analysis method, an increasingly popular method as dosage calculations are universalized. Math for Healthcare Professionals contains diagnostic test questions at the beginning of each chapter, sample questions throughout each chapter, and diagnostic test questions at the end of each chapter to analyze proficiency of that subject matter. The print book includes a CD-ROM with additional practice questions.

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.

**Calculation of Drug Dosages** Caroline Peterson Janney, Jane Flahive, 1996

*Oxford Textbook of Pediatric Pain* Bonnie J. Stevens, Gareth Hathway, William T. Zempsky, 2021 The iOxford Textbook of Paediatric Pain brings together clinicians, educators, trainees, and researchers to provide an authoritative resource on all aspects of pain in infants, children, and youth.

The HCP Directory of Medical Software, 1996

**Med-math** Grace Henke, 1991

*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.

**Software for Health Sciences Education**, 1987

**Clinical Calculations** Joyce LeFever Kee, Sally M. Marshall, 1996 This student-friendly text helps you to brush up on your math skills and learn to perform drug calculations with confidence. After guiding you step-by-step through the systems, conversions, and methods of dosage calculation, the text will show you how to calculate dosages for oral, injectable, and intravenous drugs in both general and specialty settings. Clinical Calculations 3rd Edition makes learning dosages easy with 25% more practice problems, actual drug labels in full.

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 FACHGEBIET Surgery Pediatric Surgery Colon and Rectal Surgery INTERESSENTENGRUPPE Of interest to pediatric  
 surgeons colon rectal surgeons and general surgeons Level Atlas URHEBER A Pe a New York NY TITEL Atlas of Surgical  
 Management of Anorectal Malformations      **Rudolph's Pediatrics, 24th Edition** Mark W. Kline,Jordan S. Orange,Angelo  
 P. Giardino,Mahesh M. Rathore,Z Leah Harris,Antonio Cabrera,2026-01-30 The landmark pediatrics reference updated with  
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 Academy of Pediatrics,2007 CD ROM includes AAP clinical practice guidelines policy statements clinical and technical  
 reports in searchable format      **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      **Clinical Calculations for Nurses** Mary Jane Cordón,1990 Emphasizes the appliction of basic math concepts to on the job clinical situations and provides nursing students with a basic math review Annotation copyrighted by Book News Inc Portland OR      *1995 Nursing Directory* Scott Alan Stewart,1995-05-01 Contains 597 computer assisted instructional programs for nursing education and reference from 1995      **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05      Test Question Logic (TQLogic) for the NCLEX-RN Exam Patricia A. Hoefler,2004 Stop choosing the wrong answers even when you know the content This book will help you reduce test anxiety You ll learn MEDS proven strategies for significantly improving your test taking skills so you can achieve test success with a lot less stress Plus you will learn MEDS TQLogic a proven methodology for answering questions correctly Includes new NCLEX Exam Test Plan and Test Smart CD ROM

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