

DOSAGE CALCULATION

Conversions:

- 1 kg = 2.2 lbs
- 1 mg = 1,000 mcg
- 1 g = 1,000 mg
- 1 oz = 30 mL
- 1 L = 1,000 mL
- 1 tsp = 5 mL
- 1 tbsp = 15 mL
- 1 tbsp = 3 tsp

Rounding:

- Less than .5 = round to nearest whole
- Greater than .5 = round to nearest tenth

Dimensional Analysis:

- **Given:** 60mg acetaminophen q 6 hrs PRN
- **Available:** 300mg tablets

1. Determine the unit that you are calculating.
• Tablets
2. Determine the quantity available.
• 300 mg
3. Determine the dose available.
• 300 mg
4. Determine the desired dose.
• 600 mg
5. Do you need to convert units?
• No
6. Set up the problem and solve.

$$\frac{\text{Quantity}}{\text{Available dose}} \times \frac{\text{Desired dose}}{1} = \frac{1 \text{ Tablet}}{300 \text{ mg}} \times \frac{600 \text{ mg}}{1} = 2 \text{ tablets}$$

Solid Dosages:

- **Given:** Penicillin 600mg PO 3 times a day
- **Available:** 300mg tablets
- **Question:** how many tablets per dose?

$$\frac{1 \text{ Tablet}}{300 \text{ mg}} \times \frac{600 \text{ mg}}{1} = 2 \text{ Tablets}$$

Liquid Dosages:

- **Given:** 60mg Penicillin PO daily
- **Available:** Penicillin 300mg per 5mL
- **Question:** how many mL should be administered?

$$\frac{3 \text{ mL}}{300 \text{ mg}} \times \frac{60 \text{ mg}}{1} = 0.6 \text{ mL}$$



Injectable Dosages:

- **Given:** Benzathine 60mg IM Four times day
- **Available:** Benzathine 60mg per mL
- **Question:** how many mL will be administered?

$$\frac{1 \text{ mL}}{60 \text{ mg}} \times \frac{60 \text{ mg}}{1} = 1 \text{ mL}$$



Weight-Based Dosages:

- **Given:** Amoxicillin 40mg/kg body weight once a day
- **Available:** Amoxicillin suspension 400mg/5mL
- **Question:** how many mL given per dose for a 22lb child?

1. Convert lb to kg: $22 \text{ lb} \div 2.2 = 10 \text{ kg}$
2. Calculate dose in mg: $40 \frac{\text{mg}}{\text{kg}} \times 10 \text{ kg} = 400 \text{ mg}$
3. Divide dose by frequency: $400 \text{ mg} \div 1 = 400 \text{ mg per dose}$
4. Convert mg to mL:

$$\frac{5 \text{ mL}}{400 \text{ mg}} \times \frac{400 \text{ mg}}{1} = 5 \text{ mL per dose}$$

IV Flow Rate with Electronic Pump:

- **Given:** 600 mL of D5W in 8 hours

$$\frac{\text{Volume}}{\text{Time}} = \frac{600 \text{ mL}}{8 \text{ hours}} = 75 \text{ mL/hr}$$

Manual IV Infusions:

- **Given:** 100mg to be infused over 6 hours
- **Question:** how many grams if the drip factor is 15 gtt/mL?

$$\frac{\text{Volume}}{\text{Time (hr)}} \times \frac{\text{Drop Factor}}{15 \text{ gtt/mL}} = \frac{100 \text{ mL}}{6 \text{ hr}} \times \frac{15 \text{ gtt/mL}}{1 \text{ mL}} = 250 \text{ gtt/hr}$$

Nursing Calculations

Susan Starkings, Larry Krause

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Nursing Calculations:

Clinical Nursing Calculations Susan Sienkiewicz, Sandra Megerdichian, 2019-09-27 *Clinical Nursing Calculations* is an essential text for teaching dosage calculation to undergraduate nursing students **Nursing Calculations E-Book** John D. Gatford, Nicole M. Phillips, 2016-05-18 This internationally renowned guide to basic arithmetic for nursing students has been completely revised and updated for a new generation of readers Now entering its ninth edition *Nursing Calculations* comes with a quick reference card fits in the pocket to remind readers of essential formulae and AN ON LINE PROGRAM TO ALLOW FURTHER SELF TESTING VIA THE USE OF COMPUTERS AND MOBILE DEVICES Over 200 000 copies sold since publication Initial self testing chapter allows readers to identify and address areas of difficulty before moving onto practical examples Important Boxes highlight potential pitfalls for the reader Special section on paediatrics covers medication calculations relating to body weight and body surface area Contains glossary and useful abbreviations Brings together basic math skills and clinical examples to prepare readers for real life drug calculations Quick reference card fits in the pocket and remind readers of essential formulae Questions have been revised and updated when necessary to reflect current practice New material includes the use of medication charts in questions that involve medication labels Additional worked examples facilitate understanding of the 24 hour clock Contains a new revision chapter to help consolidate learning NOW COMES WITH AN ON LINE PROGRAM TO ALLOW FURTHER SELF TESTING VIA THE USE OF MOBILE DEVICES **Clinical Nursing Calculations with Navigate Advantage Access** Susan Sienkiewicz, Sandra Megerdichian, 2024-02-13 Accurate dosage calculation is essential for all nurses to master It is crucial to equip students with the right tools to build a strong foundation and establish lifelong confidence in calculation and maintaining patient safety The updated *Clinical Nursing Calculations Third Edition* empowers students with the confidence and skills to safely calculate the right medication dosage to their patients Drawing from their extensive experience across the continuum of care the authors employ the CASE approach Convert Approximate Solve Evaluate for performing dosage calculations while presenting side by side comparisons of all three methods of calculation This systematic step by step approach accounts for students different learning styles whether they prefer to utilize the Ratio Proportion Formula Method or Dimensional Analysis method of calculation

Nursing Calculations and IV Therapy For Dummies - UK Claire Boyd, 2016-03-21 The fast and easy way to pass the *Nursing Calculations* test Is the maths behind the medicine making you maudlin over taking your *Nursing Calculations* test You've come to the right place Written by a nurse with countless hours of experience and who trains other nurses every day this plain English no nonsense guide to nursing calculations and IV therapy makes it easier to come to grips with the numbers and formulas you'll encounter on the day of the exam and in the field Many students and practising nurses struggle with mathematics Luckily this friendly guide is here to take the intimidation out of the subject arming you with the knowledge and know how you need to take the exam with confidence and to achieve the best score possible From fractions

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How to Master Nursing Calculations Chris John Tyreman,2010-09-03 To promote safe practice nursing schools test for basic arithmetic both at interview stage and during the 3 years of nurse

training How to Master Nursing Calculations will help you to cope with these tests offering a step by step approach which will take you from base level knowledge to competency both in drug calculations and the ability to read drug dosage charts The book begins with a helpful diagnostic section which will help you to identify your strengths and weaknesses before going on to cover basic numeracy The book goes on to deal with drug dosage calculations and prescription awareness questions at both basic and more advanced levels It features clear illustrations showing how to read instrument scales medical admin records and pharmaceutical labels Combining drug dosage charts a chapter on drug administration including a list of abbreviations and their meanings mock tests with answers and full explanations How to Master Nursing Calculations will be an essential asset during your years as a trainee nurse and beyond Math for Nurses Mary Jo Boyer,2009 Now in its Seventh Edition this pocket guide is a compact portable easy to use reference for dosage calculation and drug administration The author uses a step by step approach with frequent examples to illustrate problem solving and practical applications Coverage includes review of mathematics measurement systems and a comprehensive section on dosage calculations Practice problems throughout the text and end of chapter and end of unit review questions will aid students application and recall of material A handy pull out card contains basic equivalents conversion factors and math formulas **Drug Calculations for Nurses** Robert Lapham,2021-07-28 This new edition of Drug Calculations for Nurses teaches healthcare professionals how to perform drug calculations with confidence and competence It provides step by step guidance to carry out accurate drug calculations with units and drug strengths clearly explained This bestselling pocket size book begins with the basic mathematical skills required to perform calculations including tips on estimating answers It then covers drug strengths and concentrations dosage calculations IV infusion therapies and pharmacodynamics and pharmacokinetics Separate chapters focus on children adults and the elderly addressing specific challenges encountered in these populations with new content on pregnancy and renal and liver function Helpful worked examples key points and objectives are included in every chapter and this new edition includes more calculations for prescribing and patient focused scenarios The companion website www.drugcalcsnurses.co.uk provides a comprehensive test bank with a pre test and revision test to identify strengths and weaknesses along with additional practice questions for readers to test themselves on Designed for students and practitioners in nursing midwifery and allied health this textbook enables readers to improve their numeracy skills for clinical practice and develop their understanding of the broader context for these calculations **BOOK ALONE: Clinical Nursing Calculations 3E Component** Jones & Bartlett Learning, LLC,Susan Sienkiewicz,Sandra Megerdichian,2024-03-14 Every new print copy includes Navigate Advantage Access that unlocks an interactive eBook student practice activities and assessments additional NCLEX Next Gen questions clinical skills videos a full suite of instructor resources and learning analytics reporting tools Accurate dosage calculation is essential for all nurses to master It is crucial to equip students with the right tools to build a strong foundation and establish lifelong confidence in calculation

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Dosage Calculations for Nursing Students Bradley J. Wojcik, Chase Hassen, 2018-08-16 Do You Want to Learn a Few Simple Methods of Solving Dosage Calculations WITHOUT a Bunch of Formulas Would you like to raise your hand in your dosage calculation class after the instructor explains a complicated formula and ask to approach the white board to show the class a much simpler method Do you want to go on your clinicals knowing that you have a solid foundation in dosage calculations Do you want to walk into your Nursing Calculations class on the first day knowing that you can ace all the tests before the course begins If you answered yes to any of these questions this book is for you Unit 1 Covers Essential Skills The Metric System Apothecary Avoirdupois Household Systems Ratios Conversion Factors Unit 2 Covers Auxiliary Subjects Rounding Numbers Roman Numerals Scientific Notation Military Time Unit 3 Will Teach You One Simple Method to Set Up Solve All the Following Types of Calculations Using Dimensional Analysis The Ratio Proportion Method is Also Covered Unit Conversions Dosage Calculations IV Flow Rate Calculations Percent Percent Strength Ratio Strength Calculations Milliequivalent Calculations The book includes plenty of exercises to hone your skills along with a self assessment exercise Scroll Up Get Your Copy Now

Drug Calculations Meta Brown, RN, Med, Joyce L. Mulholland, MS, RN, ANP, MA, 2015-11-10 Extensively covering the ratio and proportion method *Drug Calculations Ratio and Proportion Problems for Clinical Practice* 10th Edition is known for its realistic practice problems and unique proof step in the answer key that lets you double check your answers to avoid medication errors This text addresses the current issue of patient safety with respect to accurate drug dosages through the inclusion of QSEN competencies recommendations and with features such as new Clinical Relevance boxes and Clinical Alerts that call attention to situations in actual practice that have resulted in drug errors You will get extensive hands on practice for the NCLEX Exam through the text s calculation problems critical thinking exercises worksheets and assessment tests Over 1 100 practice problems in ratio and proportion offer the extensive practice needed to become proficient in drug calculations Step by step format for each problem includes a unique Proof step in the answer key to ensure that you understand the solution Patient Safety chapter

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Drug Calculations for Nurses: A Step-by-Step Approach 3rd Edition Robert Lapham,Heather Agar,2009-07-31 This best selling pocket sized book helps you perform drug calculations with confidence and competence The completely updated third edition includes community practice and primary

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