

# DOSAGE CALCULATION

## Printable PDF

### DOSAGE CALCULATION

#### CONVERSIONS

1 kg = 1000 lbs  
 1000 g = 1 kg  
 1000 mg = 1 g  
 1000 micrograms = 1 mg  
 1000 ml = 1 litre  
 1 fl oz = 30 ml  
 1 tsp = 5 ml

#### SOLID DOSAGE CALCULATION

##### Steps

1. Determine the quantity available
2. Determine the dose available
3. Determine the desired dose
4. Determine the units you are calculating and convert if required

##### Formula to use for calculation

$$\frac{\text{Quantity Available}}{\text{Dose Available}} \times \frac{\text{Desired Dose}}{1} = \text{X}$$

##### Example

Quantity Available: 1 Tablet  
 Dose Available: 500 mg  
 Desired Dose: 1000 mg

Solve:

$$\frac{1 \text{ Tablet}}{500 \text{ mg}} \times \frac{1000 \text{ mg}}{1} = 2 \text{ Tablets}$$

#### LIQUID DOSAGE CALCULATION

To administer 500 mg of erythropoietin that is available in a dose of 100mg/ml

Solve:

$$\frac{1 \text{ ml}}{100 \text{ mg}} \times \frac{500 \text{ mg}}{1} = 5 \text{ ml}$$

5 ml of erythropoietin will be administered

#### INJECTIBLE DOSAGE CALCULATION

Order: Administer 50mg of Remedol every 4 hrs  
The available dose of Remedol is 100mg/ml

Solve:

$$\frac{1 \text{ ml}}{100 \text{ mg}} \times \frac{50 \text{ mg}}{1} = 0.5 \text{ ml}$$

#### WEIGHT BASED DOSAGE CALCULATION

Order: Administer Amoxicillin 40mg/kg in 2 doses  
The available dose of Amoxicillin is 400mg/5ml  
Weight of patient is 30 kg

To calculate the dose to be given to a child weighing 30 kg first calculate the dose to be given in mg

$$\frac{40 \text{ mg}}{1 \text{ kg}} \times \frac{30 \text{ kg}}{1} = 1200 \text{ mg}$$

Divide the dose with frequency  $\frac{1200 \text{ mg}}{2} = 600 \text{ mg}$

#### IV FLOW RATE

##### IV Flow ml/hr

Order: Administer 1,000ml of 0.9% in 10 hours

$$\frac{\text{Volume}}{\text{Time}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{60 \text{ min}}{1 \text{ hr}} = 6000 \text{ ml/hr}$$

##### IV Flow gtt/hr

Order: Administer 1,000ml of 0.9% in 10 hours (drip chamber)

$$\frac{\text{Volume}}{\text{Time}} \times \frac{\text{Drip}}{\text{Drop}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{15 \text{ gtt}}{1 \text{ drop}} \times \frac{60 \text{ min}}{1 \text{ hr}} = 9000 \text{ gtt/hr}$$

#### EXAMPLES

Order: Suspension 100 mg per 5ml solution. The nurse has 100mg/5ml. How much dose she will administer?

$$\frac{100 \text{ mg}}{5 \text{ ml}} \times \frac{100 \text{ mg}}{100 \text{ mg}} = 10 \text{ ml}$$

Order: 0.5 mg/kg for a child weighing 30 lbs. How much dose will be administered?

Order: 10 mg/kg for the child. The medication is 100mg/ml. How much dose will be administered by nurse?

#### ABBREVIATIONS AND TERMS

stat = Immediately  
 bid = Twice a day  
 tid = Three a day  
 qid = Four times a day  
 q = every  
 q1h = every 1 hr  
 q2h = every 2 hr  
 q3h = every 3 hr  
 q4h = every 4 hr  
 q6h = every 6 hr  
 q8h = every 8 hr  
 q12h = every 12 hr  
 prn = as needed  
 ac = before meals  
 pc = after meals  
 qd = Every day  
 qm = per morning  
 qn = per night  
 hds = Tablet  
 caps = Capsule  
 susp = Suspension

# Nursing Calculations Cheat Sheet

**Claire Boyd**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Nursing Calculations Cheat Sheet:**

*Clinical Nursing Calculations* Susan Sienkiewicz, Sandra Megerdichian, 2024-02-13 *Clinical Nursing Calculations* Third Edition is an essential text for teaching dosage calculation to undergraduate nursing students. The text employs the CASE approach which is a step by step method for performing dosage calculations. The author team draws from extensive experience across the continuum of care to bring readers a truly informative and dynamic resource. *Clinical Nursing Calculations* has been expertly organized into four sections for easy navigation: Mathematics Overview, Principles of Medication Administration, Basic Dosage and Intravenous Calculations, and Advanced Calculations. In addition to clinical calculation coverage, the text also features expanded content on nutrition, insulin calculations, and the legal implications of medication administration. The Joint Commission and the Institute for Safe Medication Practice guidelines regarding safe medication administration are also featured. To facilitate learning, students will find examples in both electronic medication administration record (eMAR) and electronic health record format. This text can be used as a primary text for a dosage calculations course or as a supplemental text within a nursing program or pharmacology course. [Nursing Calculations and IV Therapy For Dummies - UK](#) Claire Boyd, 2015-12-21 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, percentages, and proportions to pills, fluids, and prescriptions, *Nursing Calculations IV Therapy For Dummies UK* edition offers detailed advice and instruction on everything you need to know to pass the exam with flying colours. Hundreds of practice questions help you learn and revise. Clear explanations and lack of jargon make learning easy. Observation charts and extra content are available for download upon purchase. Combines nursing calculations and IV therapy to offer excellent value. Whether you're a student revising for the Nursing Calculations test, a newly qualified nurse looking to brush up on your maths skills, or a member of a medical staff who's been asked to take on nursing duties, this friendly and accessible guide makes maths less menacing. **Dosage Calculations Made Incredibly Easy!** Springhouse, 2002 This entertaining guide is now more fun, more up to date, and even easier to use, an indispensable resource for nurses who want to take the stress out of dosage calculations. New to this edition are a chapter on dimensional analysis, numerous lighthearted learning aids called Cheat Sheets, and Practice Makes Perfect case study questions and answers that let nurses assess their progress. Contents include math basics, measurement systems, drug orders, and administration records, calculating oral, topical, and rectal drug dosages, calculating parenteral injections, and

I V infusions and calculating pediatric obstetric and critical care dosages      **Medical Dosage Calculations For Dummies**  
 Vanessa DePue, Richard W. Snyder, Barry Schoenborn, 2026-01-06 An accurate and easy to read resource for students in medical dosage calculation classes Medical Dosage Calculations For Dummies 2nd Edition is an accurate guide to dosage calculation that tracks to standard course curricula It's an easy to follow supplementary resource for students of nursing pharmacology paramedic programs and beyond walking you through ratio proportion formula and dimensional analyses for a wide variety of medication types You'll learn how medications are given to whom and how to chart accurately and clearly You'll also discover how to handle the processes and language of medical dosing as well as how to navigate the electronic medical records EMRs and electronic health records EHRs Inside Brush up on your math Understand the best practices in medical administration including needle insertion instructions Discover evidence based practice guidelines and methods Perfect for students currently taking a medical dosage calculations class Medical Dosage Calculations For Dummies is also a great resource for working professionals interested in brushing up on the fundamentals      [36 Nursing Cheat Sheets for Students](#)  
 Jon Haws, 2015-03-23 It's Time To ACE the NCLEX® Ready to take your studies to the next level This ebook contains the most needed most referenced and sometimes most confusing information in an easy to read understand and remember way 36 nursing reference pages in full color ranging in topics from respiratory to medication you will love having this handy book on your phone while in clinical or class Stop Wasting Time Look we've all been there nursing school is hard You never know what is MOST important and what you should be focusing on Not any more With this easy to read and use book you have exactly what you need right at your finger tips With tables pictures graphs and more you are ready to soar Perfect for the new nurse or nursing student looking to save time and energy in their studies Topics Include Injection Sites IM Common Laboratory Values Blood Gas Analysis Blood Gas Interpretation Blood Compatibility Anticoagulant Therapy Heart Murmurs Glasgow Coma Scale Cranial Nerves Wallace Rule of Nines Burn Severity Edema Scale Wigger Diagram Heart Sounds Normal EKG 12 Lead EKG Placement EKG Strip Interpretation Abnormal EKG 5 Lead EKG Placement Heart Murmurs Shock Hierarchy of O2 Delivery Wound Pressure Ulcer Staging IV Fluid Therapy Medication Antidotes Insulin Onset Peak and Durations Common Drug Stems Common Critical Care Drips Common Light Sensitive Drugs Celsius to Fahrenheit Conversion Nursing Calculations Nursing Math Conversions APGAR Scoring Breath Sounds Maslow Hierarchy of Needs Head to Toe Assessment Checklist Adult Vital Signs What are you waiting for      [The Student Nurse Handbook E-Book](#)  
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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 The updated Third Edition features expanded content on nutrition and insulin pen calculations a focus on legal implications of medication administration exercises targeting safe practice with high alert medications examples given in eMar and electronic health record format and new videos that demonstrate clinical calculation skills Realistic dosages practical clinical application chapter case studies a step by step approach and interactive learning tools make Clinical Nursing Calculations Third Edition a perfect resource for all pre licensure nursing students Two New digital learning features available on Navigate Advantage help to illuminate the pathway to safety or safe medication administration Illuminations Video Calculation Clips are short video clips that demonstrate the key math skills covered throughout the text to include metric conversions basic dosage calculations computations requiring reconstitution basic and critical care IV calculations safe dosage determination and implementation of a weight based heparin Illuminations Mastery Assessments are a set of 14 questions per chapter four of which are Next Generation NCLEX style items New feature titled Illuminations Clinical Judgment Queries presents a set of rigorous NCLEX style questions that promote critical thinking to prepare students for the Next Generation NCLEX New reference Illuminations Calculations Quick Guide was added to the end of the book as a concise reference of key math skills covered throughout the text It includes metric conversions basic dosage calculations safe dosage determination and more Information on safe medication administration was updated to align with current regulations guidelines and competencies for safe medication administration from the CDC The Joint Commission National Patient Safety Goals and QSEN Each chapter opens and closes with a case study that draws from real life scenarios students could encounter in clinical practice Every new print copy includes access to Navigate Advantage with robust learning resources to support self paced learning including the interactive eBook with Quizzes and Knowledge Checks the Illuminations Video Calculation Clips and Illuminations Mastery Assessments Instructor resources include narrated Slides in PowerPoint format an Instructor s Solutions Manual Additional NCLEX Questions and Test Bank Math for MedsClinical Nursing Calculations 2025 650 pages

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**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

**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

**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 E-Book** John D. Gatford, Nicole M. Phillips, 2011-03-18 This best selling book enables nursing

students to calculate drug doses accurately and quickly It begins with a diagnostic test to pinpoint any weaknesses in basic arithmetic and is followed by specific exercises to remedy them Examples are drawn from everyday clinical practice with graded exercises and answers The content covers administering injections tablets and mixtures intravenous infusions administering safe dosages to children Nursing Calculations is an essential aid to safe clinical practice for student nurses and those returning to the profession A diagnostic test at the start allows readers to review their knowledge of maths and identify their weak points Numerous exercises give plenty of practice in making drug calculations Answers to questions aid self study Revision and summary exercises ensure that the reader fully understands the calculations The nursing context and use of actual drug labels allows the application of theory to everyday practice All medications reviewed and updated in accordance with current practice Revised layout to avoid crowded pages Additional exercises labels and paediatric examples Additional set of syringe diagrams A new table of abbreviations and their meanings and explanation of the 24 hour clock Addition of handwritten prescriptions to the medication label exercises to improve links to real life practice

**Forest and Stream**,1883 *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

Practical Nursing Calculations VALDA. MAYNER HEXT (LIDIA.),2021-03 Worried about getting the dose



wrong Don't know your fractions from your decimals You're not alone Many people are not comfortable with their mathematical abilities but for most it's not a life or death situation For nurses however a bad maths day can have catastrophic consequences if drug dosages are calculated incorrectly Practical Nursing Calculations provides easy to understand explanations of key calculations The many exercises offer opportunities to practise basic problem solving to help build your confidence The use of real life situations demonstrates how maths is actually applied when working with patients Realistic scenarios introduce common presenting illnesses and the medications used to treat them and enables you to calculate their correct dosages This book has been developed to assist you to gain competency in basic mathematical skills and problem solving techniques which require applied or conceptual mathematics Practical Nursing Calculations has emerged from actual classroom curriculum and ten years of teaching in a major nursing school Easy to use Practical Nursing Calculations provides you with a thorough grounding in the fundamentals of mathematics and a sense of how to apply your knowledge in your professional lives A sound teaching and learning resource this book is appropriate for self directed learning or as a classroom guide This text is accompanied by a password accessed website with extra exercises and quizzes [www.allenandunwin.com/nursing](http://www.allenandunwin.com/nursing)

[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

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to calculate their correct dosages This book has been developed to assist you to gain competency in basic mathematical skills and problem solving techniques which require applied or conceptual mathematics Practical Nursing Calculations has emerged from actual classroom curriculum and ten years of teaching in a major nursing school Easy to use Practical Nursing Calculations provides you with a thorough grounding in the fundamentals of mathematics and a sense of how to apply your knowledge in your professional lives A sound teaching and learning resource this book is appropriate for self directed learning or as a classroom guide This text is accompanied by a password accessed website with extra exercises and quizzes [www.allenandunwin.com/nursing](http://www.allenandunwin.com/nursing)

**Math For Nurses** Mary Jo Boyer, 2019-10-25 Math for Nurses A Pocket Guide to Dosage Calculation and Drug Preparation 10th Edition Mary Jo Boyer RN PhD Quickly Access Everything You Need to Calculate Dosages Effectively and Ensure Accurate Drug Delivery Current compact and easy to use Math for Nurses helps you perfect the basic math skills measurement systems and drug calculations preparations essential to successful nursing practice Packed with real clinical examples and practice problems this pocket sized reference guides you step by step through the problem solving and practical applications required in the nursing workplace A handy pull out quick reference card delivers fast access to basic equivalents conversion factors and math formulas Comprehensive dosage calculation coverage familiarizes you with ratio proportion formula and dimensional analysis methods of arriving at calculations Practice problems throughout the text and review questions at the end of each chapter and unit test your retention and application capabilities 300 additional Practice Problems and Answers available online through thePoint further enhance learning and retention Learning Objectives focus your study and review on essential concepts and practices Critical Thinking Checks help you analyze your results to dosage problems and ensure understanding of key content

*One Touch Nursing Calculations* Sam Djanie, 2004-12 I stumbled over this formulae when I went for a medication exam at the Columbia Presbyterian Hospital in New York City I was not informed that I would be doing a medication exam so I did not go over my medication calculation formulae As any nurse would testify if you cannot remember your medication calculation formulae you are doomed to fail Out of desperation frustration and scratching my head I tried this formula and it worked I have been using this formulae since 1995 and it has been successful all the time I have even modified and made it simple This formulae is the best because it is based on a system Just like any system it is dependable and predictable This will give nurses the assurance to do their work But more importantly it will give them the peace of mind to care for their patients This is fun

The book delves into Nursing Calculations Cheat Sheet. Nursing Calculations Cheat Sheet is a vital 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 Nursing Calculations Cheat Sheet, encompassing both the fundamentals and more intricate discussions.

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

- Chapter 1: Introduction to Nursing Calculations Cheat Sheet
- Chapter 2: Essential Elements of Nursing Calculations Cheat Sheet
- Chapter 3: Nursing Calculations Cheat Sheet in Everyday Life
- Chapter 4: Nursing Calculations Cheat Sheet in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Nursing Calculations Cheat Sheet. This chapter will explore what Nursing Calculations Cheat Sheet is, why Nursing Calculations Cheat Sheet is vital, and how to effectively learn about Nursing Calculations Cheat Sheet.
3. In chapter 2, this book will delve into the foundational concepts of Nursing Calculations Cheat Sheet. This chapter will elucidate the essential principles that need to be understood to grasp Nursing Calculations Cheat Sheet in its entirety.
4. In chapter 3, this book will examine the practical applications of Nursing Calculations Cheat Sheet in daily life. This chapter will showcase real-world examples of how Nursing Calculations Cheat Sheet can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Nursing Calculations Cheat Sheet in specific contexts. This chapter will explore how Nursing Calculations Cheat Sheet is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Nursing Calculations Cheat Sheet. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Nursing Calculations Cheat Sheet.

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