

# MEDICATION Math



## DRUG CALCULATION FORMULAS

### CONVERSION KEY

1 mL = 1 cc	1 tsp = 5 mL	30 mL = 1 oz
1 L = 1,000 mL	3 tsp = 1 tbsp	1 mcg = 1 mg
1 mg = 1,000 mcg	1 kg = 1,000 g	2.2 lbs = 2.2 kg
1 gm = 1,000 mg	1 oz = 2 tbspn	1 tbspn = 15 mL



### MIXTURES & SOLUTIONS

$$\frac{\text{DESIRED DOSE}}{\text{STOCK STRENGTH}} \times \text{STOCK VOLUME} = \text{AMOUNT TO BE GIVEN}$$



### TABLET DOSAGES

$$\frac{\text{DESIRED DOSE}}{\text{STOCK STRENGTH}} = \text{NUMBER OF TABLETS}$$



### IV RATES

ML PER HR & MIN:

$$\frac{\text{TOTAL IV VOLUME}}{\text{TIME (HR or MIN)}} = \text{ML PER HOUR OR MINUTE}$$



DROPS PER MIN:

$$\frac{\text{TOTAL IV VOLUME}}{\text{TIME (MIN)}} \times \text{DROP FACTOR} = \text{DROPS PER MINUTE}$$

REMAINING INFUSION TIME:

$$\frac{\text{VOLUME REMAINING (ML)}}{\text{DROPS PER MINUTE}} \times \text{DROP FACTOR} = \text{MINUTES REMAINING}$$

# Med Math Study Guide

**Michal Rosen-Zvi**



## **Med Math Study Guide:**

**Nursing Math Guide (Speedy Study Guide)** Speedy Publishing, 2014-12-07 Preparing for any exam is much easier when all the necessary materials are neat and organized. A nursing math study guide has a good bit of the information needed all in one spot. These study guides are written to include the most important information in the most relevant order. Students do not have to go searching through textbooks and piles of unorganized notes and won't possibly lose their train of thought with the appropriate study guide at their finger tips.

**Medical Mathematics (Speedy Study Guides)** Speedy Publishing, 2014-05-04 Mathematics in medicine is a very important part of the health care process. Nurses and doctors must be able to perform math functions to administer proper dosages of medicine. Medicinal amounts are based on the weight of a patient. A doctor must convert weight from pounds to kilograms and then into milligrams to determine correct prescription dosages. A medical professional must be able to read bodily fluid test amounts in terms of microlitres and deciliters. In medical research, statistics are used to gather data and publish results of studies. CAT scans and x-rays use mathematical calculations. Luckily, there are charts to help nurses and doctors quickly make conversions; however, these professionals must understand how to perform these calculations without them in certain situations.

*Certified Medication Aide Study Guide 2025-2026* Rosetta Hope Patton, Kellen Blondie Stephens, Master Your Medication Aide Certification Exam with 625 Practice Questions Ace your Certified Medication Aide CMA or Qualified Medication Aide QMA certification exam with the most comprehensive practice question workbook available for 2025-2026. This complete study guide delivers 625 realistic exam questions with detailed answer explanations designed to build your confidence and ensure first-time success. What You'll Get: 10 Full Length Practice Exams targeting every certification exam domain: Foundations and Legal Issues (50 questions), Pharmacology Basics (50 questions), Medication Calculations (50 questions), Routes of Administration (50 questions), Special Populations (50 questions), Documentation and Safety (50 questions), Comprehensive Review Exam A (75 questions), Comprehensive Review Exam B (75 questions), Scenario Based Questions (50 questions), Final Comprehensive Exam (100 questions). Detailed Answer Explanations for all 625 questions help you understand the reasoning behind correct answers and learn from every mistake. Complete Exam Coverage: Five Rights of medication administration and safety protocols, DEA regulations and controlled substance management, Medication calculations, conversions and dosage problems, Drug classifications: antibiotics, antihypertensives, analgesics, diuretics, insulin. Administration routes: oral, sublingual, buccal, topical, transdermal, rectal, ophthalmic, otic. Pharmacology principles: absorption, distribution, metabolism, excretion. High alert medications and error prevention strategies. Documentation standards and MAR completion. Legal responsibilities and scope of practice. Special considerations for geriatric, pediatric, and pregnant patients. Drug interactions, side effects, and adverse reactions. Emergency procedures and incident reporting. Perfect For CNAs seeking CMA or QMA certification, Nursing assistants in long-term care facilities, Medication technician certification candidates, Healthcare workers in assisted living.

settings Students in medication aide training programs Professionals preparing for state certification exams Anyone pursuing medication administration credentials

**Why This Study Guide Works**

**Exam Focused Questions** Every question mirrors actual certification exam format difficulty and content distribution

**Practice with realistic scenarios** you ll encounter on test day

**Progressive Difficulty** Start with domain specific exams to build foundational knowledge then advance to comprehensive exams that integrate all topics just like the real certification test

**Learn From Explanations** Detailed rationales explain not just what the answer is but why it s correct

**Understand the underlying principles** to apply knowledge in any situation

**Real World Scenarios** Scenario based questions prepare you for clinical decision making and practical application of medication administration principles in actual healthcare settings

**Comprehensive Topic Coverage**

Legal and Professional Standards  
Medication aide scope of practice  
HIPAA privacy requirements  
Patient rights including right to refuse  
Nurse Practice Act regulations  
Professional boundaries  
Incident reporting procedures  
Medication Safety  
The five rights plus documentation and response  
Three medication label checks  
Two patient identifier system  
High alert medication protocols  
Look alike sound alike drugs  
Controlled substance counts and security  
Pharmacology Essentials  
Drug classifications and therapeutic uses  
Generic versus brand names  
Indications and contraindications  
Therapeutic effects and side effects  
Adverse reactions and allergic responses  
Drug interactions and food interactions  
Dosage Calculations  
Metric conversions grams milligrams micrograms  
Household measurements teaspoons tablespoons ounces  
Tablet and capsule calculations  
Liquid medication measurements  
Daily dose calculations  
PRN medication tracking  
Administration Techniques  
Proper patient positioning  
Aspiration prevention  
Sublingual and buccal placement  
Transdermal patch application and rotation  
Eye drop and ear drop instillation  
Rectal suppository insertion  
Inhaler and spacer use  
Documentation Excellence  
MAR accuracy and timeliness  
PRN documentation requirements  
Refusal documentation  
Error correction procedures  
Incident report completion  
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