

# MEDICATION MATH CHEAT SHEET

## Weight-Based Dosage Calculations

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



## Injection Calculations

- **Formula:** Dose = (Desired Dose ÷ Available Dose) × Volume
- **Example:** Ordered 100 mg, Available 50 mg/mL → (100 ÷ 50) × 1 = 2 mL
- **Insulin Calculation:** (Blood Sugar - Target Blood Sugar) ÷ Sensitivity Factor
- **Safety Tip:** Verify medication concentration and route (IM, SubQ, IV)



## Tablet/Pill Dosage Calculations

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



## IV Drug Calculations

- **Flow Rate Formula:** mL/hr = Total Volume (mL) ÷ Time (hr)
- **Drop Rate Formula:** gtt/min = (Total Volume × Drop Factor) ÷ Time (min)
- **Infusion Time:** Time (hr) = Total Volume ÷ Flow Rate (mL/hr)
- **Safety Tip:** Monitor for signs of infiltration and adverse reactions



## Liquid Medication Calculations

- **Formula:** Volume Needed = (Desired Dose ÷ Available Dose) × Available Volume
- **Pediatric Liquid Dosage:** (Weight in kg) × (Safe Dose Range per kg) ÷ 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 → 2.8 mL)
- Round to the nearest whole number for tablets (e.g., 1.4 tablets → 1 tablet)
- IV Rates: Round to the nearest whole number unless specified otherwise

## Important Formulas

- Desired Dose ÷ Available Dose × Quantity = Amount to Administer
- mg/kg/day = Total Daily Dose Based on Weight
- IV Push Rate = Total mL ÷ 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



# Medication Test Study Guide

**G Psacharopoulos**



## **Medication Test Study Guide:**

## Unveiling the Magic of Words: A Review of "**Medication Test Study Guide**"

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### **Table of Contents Medication Test Study Guide**

1. Understanding the eBook Medication Test Study Guide
  - The Rise of Digital Reading Medication Test Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Medication Test Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Medication Test Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Medication Test Study Guide
  - Personalized Recommendations
  - Medication Test Study Guide User Reviews and Ratings
  - Medication Test Study Guide and Bestseller Lists

5. Accessing Medication Test Study Guide Free and Paid eBooks
  - Medication Test Study Guide Public Domain eBooks
  - Medication Test Study Guide eBook Subscription Services
  - Medication Test Study Guide Budget-Friendly Options
6. Navigating Medication Test Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Medication Test Study Guide Compatibility with Devices
  - Medication Test Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Medication Test Study Guide
  - Highlighting and Note-Taking Medication Test Study Guide
  - Interactive Elements Medication Test Study Guide
8. Staying Engaged with Medication Test Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Medication Test Study Guide
9. Balancing eBooks and Physical Books Medication Test Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Medication Test Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Medication Test Study Guide
  - Setting Reading Goals Medication Test Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Medication Test Study Guide
  - Fact-Checking eBook Content of Medication Test Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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