

MEDICATION MATH CHEAT SHEET

Weight-Based Dosage Calculations

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



Injection Calculations

- **Formula:** $\text{Dose} = (\text{Desired Dose} \div \text{Available Dose}) \times \text{Volume}$
- **Example:** Ordered 100 mg, Available 50 mg/mL $\rightarrow (100 \div 50) \times 1 = 2 \text{ mL}$
- **Insulin Calculation:** $(\text{Blood Sugar} - \text{Target Blood Sugar}) \div \text{Sensitivity Factor}$
- **Safety Tip:** Verify medication concentration and route (IM, SubQ, IV)



Tablet/Pill Dosage Calculations

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



IV Drug Calculations

- **Flow Rate Formula:** $\text{mL/hr} = \text{Total Volume (mL)} \div \text{Time (hr)}$
- **Drop Rate Formula:** $\text{gtt/min} = (\text{Total Volume} \times \text{Drop Factor}) \div \text{Time (min)}$
- **Infusion Time:** $\text{Time (hr)} = \text{Total Volume} \div \text{Flow Rate (mL/hr)}$
- **Safety Tip:** Monitor for signs of infiltration and adverse reactions



Liquid Medication Calculations

- **Formula:** $\text{Volume Needed} = (\text{Desired Dose} \div \text{Available Dose}) \times \text{Available Volume}$
- **Pediatric Liquid Dosage:** $(\text{Weight in kg}) \times (\text{Safe Dose Range per kg}) \div \text{Frequency}$
- **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 \rightarrow 2.8 mL)
- Round to the nearest whole number for tablets (e.g., 1.4 tablets \rightarrow 1 tablet)
- IV Rates: Round to the nearest whole number unless specified otherwise

Important Formulas

- $\text{Desired Dose} \div \text{Available Dose} \times \text{Quantity} = \text{Amount to Administer}$
- $\text{mg/kg/day} = \text{Total Daily Dose Based on Weight}$
- $\text{IV Push Rate} = \text{Total mL} \div \text{Recommended Time (min)}$



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

Léo Pomar



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