

# DOSAGE CALCULATION




## METHODS FOR DRUG DOSAGE CALCULATIONS

Various methods are used for solving medication calculation, the most common methods are :

- **Desired Over Have or Formula Method**
- **Dimensional Analysis Method**
- **Ratio and Proportion Method**

### Formula Method

$$\frac{\text{DESIRED (D)}}{\text{HAVE (H)}} \times \text{QUANTITY (Q)} = Y \text{ (amount to administer)}$$

Symbol	Meaning	Example
<b>D</b>	Dosage ordered or desired dose	<ul style="list-style-type: none"> <li>• Give 1.2 milliliters</li> <li>• The doctor orders 90 milligrams</li> </ul>
<b>H</b>	Dose on hand or dose, on the label of bottle, vial, ampule.	<ul style="list-style-type: none"> <li>• 250 milligrams</li> <li>• 100 mg</li> </ul> 
<b>Q</b>	The unit of measure for the specific dosage strength or supply on hand (the form in which the drug comes)	<ul style="list-style-type: none"> <li>• per tablet</li> <li>• per capsule</li> <li>• in 2 mL ....</li> </ul>
<b>Y</b>	The dosage you are trying to calculate	

**Example 1:** Ampicillin 1.5 g. is ordered. Ampicillin is available as 500 mg per capsules. How many tablets would the nurse administer?

- Desired (D) = 1.5 g = 1500 mg
- On hand (H) = 500 mg
- Quantity (Q) = 1 capsule

$$\frac{1500 \text{ mg}}{500 \text{ mg}} \times 1 \text{ (Capsule)} = 3 \text{ capsules}$$

Make sure that these units match up 

The nurse would administer 3 capsules

**Example 2:**

- Order: Acetaminophen 500 mg
- On hand: Acetaminophen 250 mg in 5 mL

- Desired (D) = 500 mg
- On hand (H) = 250 mg
- Quantity (Q) = 5 mL

$$\frac{500 \text{ mg}}{250 \text{ mg}} \times 5 \text{ mL} = 10 \text{ mL}$$

Make sure that these units match up 

The nurse would administer 10 mL of Acetaminophen



# Lpn Medication Dosage Guide

**Xiang Xie**

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.

## **Lpn Medication Dosage Guide:**

## **Lpn Medication Dosage Guide** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Lpn Medication Dosage Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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