

# 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
D	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>
H	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> 
Q	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>
Y	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

# Dosage Calculations

**A Loxley**



## **Dosage Calculations:**

## The Enigmatic Realm of **Dosage Calculations**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Dosage Calculations** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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