

# DOSAGE CALCULATION

## Conversions:

- 1 kg = 2.2 lbs
- 1 mg = 1,000 mcg
- 1 g = 1,000 mg
- 1 oz = 30 mL
- 1 L = 1,000 mL
- 1 tsp = 5 mL
- 1 tbsp = 15 mL
- 1 tbsp = 3 tsp

## Rounding:

- Less than .5 = round to nearest whole.
- Greater than .5 = round to nearest tenth.



## Dimensional Analysis:

- **Given:** 60mg acetaminophen q 6 hrs PRN
- **Available:** 300mg tablets

1. Determine the unit that you are calculating.  
• Tablets
2. Determine the quantity available.  
• 300 mg
3. Determine the dose available.  
• 300 mg
4. Determine the desired dose.  
• 600 mg
5. Do you need to convert units?  
• No
6. Set up the problem and solve.

$$\frac{\text{Quantity}}{\text{Available dose}} \times \frac{\text{Desired dose}}{1} = \frac{1 \text{ Tablet}}{300 \text{ mg}} \times \frac{600 \text{ mg}}{1} = 2 \text{ tablets}$$



## Solid Dosages:

- **Given:** Acetaminophen 600mg PO 4 times a day
- **Available:** 300mg tablets
- **Question:** how many tablets per dose?

$$\frac{1 \text{ Tablet}}{300 \text{ mg}} \times \frac{600 \text{ mg}}{1} = 2 \text{ Tablets}$$

## Liquid Dosages:

- **Given:** 60mg Acetaminophen PO daily
- **Available:** Acetaminophen 30mg per 5mL
- **Question:** how many mL should be administered?

$$\frac{3 \text{ mL}}{30 \text{ mg}} \times \frac{60 \text{ mg}}{1} = 6 \text{ mL}$$



## Injectable Dosages:

- **Given:** Benzocaine 60mg IM Four times day
- **Available:** Benzocaine 30mg per mL
- **Question:** how many mL will be administered?

$$\frac{1 \text{ mL}}{30 \text{ mg}} \times \frac{60 \text{ mg}}{1} = 2 \text{ mL}$$



## Weight-Based Dosages:

- **Given:** Amoxicillin 40mg/kg daily divided into 2 doses
- **Available:** Amoxicillin suspension 400mg 5mL
- **Question:** how many mL given per dose for a 22lb child?

1. Convert lb to kg: 22 lb / 2.2 = 10 kg
2. Calculate dose in mg:  $\frac{40 \text{ mg}}{1 \text{ kg}} \times \frac{10 \text{ kg}}{1} = 400 \text{ mg}$
3. Divide dose by frequency: 400mg / 2 = 200 mg per dose
4. Convert mg to mL:

$$\frac{3 \text{ mL}}{600 \text{ mg}} \times \frac{200 \text{ mg}}{1} = 1 \text{ mL per dose}$$

## IV Flow Rate with Electronic Pump:

- **Given:** 600 mL of D5W in 8 hours

$$\frac{\text{Volume}}{\text{Time}} = \frac{600 \text{ mL}}{8 \text{ hours}} = 75 \text{ mL/hr}$$

## Manual IV Infusions:

- **Given:** 1000mL to be infused over 6 hours
- **Question:** how many grams of the drug Factor is 15 gms/mL?

$$\frac{\text{Volume}}{\text{Time (hrs)}} \times \frac{\text{Dose}}{\text{Factor}} = \frac{1000 \text{ mL}}{6 \text{ hrs}} \times \frac{15 \text{ gms}}{100 \text{ mg}} = 25 \text{ grams}$$

# Nursing Calculations

**R Pring**



## **Nursing Calculations:**

## **Nursing Calculations** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Nursing Calculations**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://pinsupreme.com/public/publication/index.jsp/philosophy%20of%20humme.pdf>

### **Table of Contents Nursing Calculations**

1. Understanding the eBook Nursing Calculations
  - The Rise of Digital Reading Nursing Calculations
  - Advantages of eBooks Over Traditional Books
2. Identifying Nursing Calculations
  - 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 eBook
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nursing Calculations
  - Personalized Recommendations
  - Nursing Calculations User Reviews and Ratings
  - Nursing Calculations and Bestseller Lists
5. Accessing Nursing Calculations Free and Paid eBooks

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