



Pharmaceutical calculation equations

BASIC MATHEMATICS

Temperature Conversion:

$$^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32 \quad ^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$$

$$\text{K} = ^{\circ}\text{C} + 273.15$$

Roman Numerals:

SS = $\frac{1}{2}$

I or i = 1

V or v = 5

X or x = 10

L or l = 50

C or c = 100

D or d = 500

M or m = 1000

- when the second of two letters has a value equal to or smaller than that of the first, their values are to be added.

- when the second has a value greater than that of the first, the smaller is to be subtracted from the larger.

Proportion:

$$\frac{a}{b} = \frac{c}{d} \rightarrow a \times d = c \times b$$

TORSION BALANCE

The sensitivity requirement (SR) of a torsion

$$\% \text{ Error} = \frac{\text{SR}}{\text{Amount to Weigh}} \times 100\%$$

Minimum Weighable Quantity (MWQ) and Aliquot Method

$$\text{MWQ} = \frac{\text{SR}}{\text{Maximum \% Error}} \times 100\%$$

ALIQOT METHOD

1. Determine the minimum weighable amount for the instrument
2. Weigh the minimum amount (or any multiple) of the substance
3. Mix with a determined amount of the inert substance to obtain a dilution or mixture
4. Weigh an aliquot (sample) of the mixture, which will provide the desired quantity of the substance
5. All weighed quantities must be equal or greater than the minimum weighable amount

$$\frac{\text{Weight of drug in trituration}}{\text{Weight of trituration}} = \frac{\text{Weight of drug in aliquot}}{\text{Weight of aliquot}}$$

DIMENSIONAL ANALYSIS

- This method involves the understanding the ratios of the data and the equivalence between the units in a way that like units will cancel out and only the desired terms will be left.



SYSTEMS OF MEASUREMENT:

Systems of Measurement:

Liter (L) for volume

Gram (g) for weight

Meter (m) for length

Measurement Unit	Equivalent within System	Metric Equivalent
1 gr (gram)		6.5 mg
1 oz (ounce)	437.5 gr	30 g (28.35 g)*
1 lb (pound)	16 oz or 7000 gr	1.3 g

Measurement Unit	Equivalent within System	Metric Equivalent
1 tsp (teaspoonful)		5 mL
1 tbsp (tablespoonful)	3 tsp	15 mL
1 fl oz (fluid ounce)	2 tbsp	30 mL (29.57 mL)*
1 cup	8 fl oz	240 mL
1 pt (pint)	2 cups	480 mL*
1 qt (quart)	2 pt	960 mL
1 gal (gallon)	4 qt	3840 mL

Measurement Unit	Equivalent within System	Metric Equivalent
1 oz (ounce)		30 g
1 lb (pound)	16 oz	454 g
2.2 lb		1 kg

Prefix	Meaning
pico-	one trillionth (basic unit $\times 10^{-12}$, or unit $\times 0.000,000,000,001$)
nano-	one billionth (basic unit $\times 10^{-9}$, or unit $\times 0.000,000,001$)
micro-	one millionth (basic unit $\times 10^{-6}$, or unit $\times 0.000,001$)
milli-	one thousandth (basic unit $\times 10^{-3}$, or unit $\times 0.001$)
centi-	one hundredth (basic unit $\times 10^{-2}$, or unit $\times 0.01$)
deci-	one tenth (basic unit $\times 10^{-1}$, or unit $\times 0.1$)
hecto-	one hundred times (basic unit $\times 10^2$, or unit $\times 100$)
kilo-	one thousand times (basic unit $\times 10^3$, or unit $\times 1000$)

AMINOPHYLLINE TO THEOPHYLLINE CONVERSION

Converting aminophylline to theophylline:

Converting theophylline to aminophylline:

$$\text{aminophylline dose} \times 0.8 = \text{theophylline dose} \quad \text{theophylline dose} \times 1.25 = \text{aminophylline dose}$$

DENSITY AND SPECIFIC GRAVITY

$$\text{Density (g)} = \frac{\text{Mass (m)}}{\text{Volume (v)}}$$

$$\text{Specific gravity (sp g)} = \frac{\text{density of substance (P}_s\text{)}}{\text{density of water (P}_w\text{)}}$$

Pharmaceutical Calculations

Willbrord Maddo Kalala



Pharmaceutical Calculations:

Introduction to Pharmaceutical Calculations, 4th edition Judith A Rees,Ian Smith,Jennie Watson,2015-04-21 Introduction to Pharmaceutical Calculations is an essential study aid for pharmacy students The book contains worked examples and sample questions and answers *Pharmaceutical Calculations* Howard C. Ansel,Shelly J. Prince,2004 This handbook is intended to be used as a tool that can be quickly accessed and employed in the in the student setting as a lab reference and in the pharmacy practice Designed as a concise reference and resource it will provide easily accessible definitions pharmacy applications insight on working with tricky calculations and realistic function example calculation With its convenient size and easy to navigate outline structure this handbook should provide great value to both the student and pharmacist *Pharmaceutical Calculations for the Pharmacy Technician* Barbara E Lacher,2020-06-15 Intended for use in an introductory pharmacy technician calculations course this unique book addresses not only calculations that technicians will encounter in retail but also those necessary for compounding IV industry and areas where a pharmacy technician might be called upon more frequently because of the shortage of pharmacy professionals **Pharmaceutical Calculations** Howard C. Ansel,2012-10-26 Widely recognized as the leading calculations textbook Ansel s *Pharmaceutical Calculations* is the most trusted resource for calculations support Time tested after thirteen editions it is the most comprehensive and in depth treatment of pharmacy calculations available The book takes a step by step approach to calculations making it easy for students to work through the problems and gain greater understanding of the underlying concepts Its focus is on the fundamental principles and basic techniques involved in the application of the calculations needed for successful pharmacy practice *Pharmaceutical Calculations* Maria Glaucia Teixeira,Joel L. Zatz,2017-02-02 Retaining the successful previous editions programmed instructional format this book improves and updates an authoritative textbook to keep pace with compounding trends and calculations addressing real world calculations pharmacists perform and allowing students to learn at their own pace through examples Connects well with the current emphasis on self paced and active learning in pharmacy schools Adds a new chapter dedicated to practical calculations used in contemporary compounding new appendices and solutions and answers for all problems Maintains value for teaching pharmacy students the principles while also serving as a reference for review by students in preparation for licensure exams Rearranges chapters and rewrites topics of the previous edition making its content ideal to be used as the primary textbook in a typical dosage calculations course for any health care professional Reviews of the prior edition a well structured approach to the topic Drug Development and Industrial Pharmacy and a perfectly organized manual that serves as a expert guide Electric Review **Pharmaceutical Calculations Workbook** Judith A. Rees,Ian Smith,2006 *Pharmaceutical Calculations Workbook* is the companion self study aid to *Introduction to Pharmaceutical Calculations* 2nd edn It contains practice calculations with answers similar to those that might be presented in pharmacy examinations and in practice Each chapter contains a variety of exercises for practising

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Practical Pharmaceutical Calculations Michael Bonner, David Wright, 2017-09-01 Understanding practical pharmaceutical calculations is essential for healthcare professionals Even simple errors in calculation can have serious and possibly fatal consequences Fully revised and updated with entirely new chapters and a focus on basic arithmetic this best selling practical guide begins by explaining simple units of measurements and expressions of concentration followed by demonstrations of how straight forward calculations can be used to estimate individual patient dosages At the end of each chapter there are self assessment calculations with fully worked answers ideal for revision and self assessment With the book and free downloads you can always have the guide on hand when you need it most

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