



Medical Math



Essentials for students & professionals—calculations, formulas, measurements, dosages, rates, equivalents & more!

basics

Prefixes

Equivalents	
mega-	1,000,000
kilo-	1,000
hecto-	100
deka-/deca-	10
deci-	1/10
(one-tenth)	0.1
centi-	1/100
(one-hundredth)	0.01
milli-	1/1,000
(one-thousandth)	0.001

micro-	1/1,000,000
(one-millionth)	0.000001

Abbreviations	
M	mega-
k	kilo-
h	hecto-
da	deka-/deca-
d	deci-
c	centi-
m	milli-
mc	micro-

Length

Equivalents	
1 mm = 0.1 cm	1 m = 1,000 mm
1 mm = 0.039 in	1 m = 100 cm
1 cm = 10 mm	1 m = 1.09 yards
1 cm = 0.39 in	1 m = 3.28 ft
10 mm = 1 cm	1 dm = 3.94 in
10 mm = 0.39 in	1 dm = 32.81 ft
2.54 cm = 1 in	1 km = 0.62 mile
2.5 cm = 25.4 mm	1 km = 3,280.08 ft
1 ft = 12 in	
1 yard = 3 ft	

Abbreviations		in	inch
mm	millimeter	ft	foot/feet
cm	centimeter		
dm	decimeter		
dam	dekameter		
m	meter		

Formulas	
cm = in x 2.54	
in = cm x 0.394	

in	cm	in	cm
20	51	40	102
22	56	42	107
24	61	44	112
26	66	46	117
28	71	48	122
30	76	50	127
32	81	52	132
34	86	54	137
36	91	56	142
38	97	58	147

Area

1 square centimeter (cm ²)	= 100 square millimeters (mm ²)
1 cubic decimeter	= 1,000 cubic centimeters (cm ³)
1 cubic meter (m ³)	= 1,000 cubic decimeters

Abbreviations	
cc	cubic centimeter

Weight

Equivalents	
1 gr = 64.79 mg	1 mg = 0.001 g
20 gr = 1 scruple	1 centigram = 0.15 gr
60 gr = 2.19 dr	1 centigram = 0.01 g
16 dr = 1 oz	1 decigram = 0.1 g
1 g = 15.432 gr	1 decigram = 1.54 gr
1 g = 1,000 mg	1 kg = 1 L
1 g = 0.035 oz	1 kg = 2.2 lb
1 g = 1 mL	1 kg = 1,000 g
10 g = 1 dekagram	1 oz = 28.35 g/1.6 dr
1 dekagram = 0.35 oz	1 Tbsp = 15 g
100 g = 1 hectogram	1 Tbsp = 4 dr
1 hectogram = 3.53 oz	1 Tbsp = 3 tsp
1 mg = 1,000 mcg	1 lb = 16 oz
	1 lb = 0.45 kg

Abbreviations					
dr	dram	lb	pound	Tbsp	tablespoon
g	gram	mcg	microgram	tsp	teaspoon
gr	grain	mg	milligram	Formulas:	
kg	kilogram	mL	milliliter	kg = lb x 0.454	
L	liter	oz	ounce	lb = kg x 2.205	

Pounds (lb)	Kilograms (kg)	Pounds (lb)	Kilograms (kg)
10	4.5	100	45.4
25	11.4	125	56.8
50	22.7	150	68.1
75	34.1	175	79.5
95	43.1	200	90.8

Fluids

Equivalents	
1 cup = 236.5 mL	1 gal = 4 qt
1 pt = 16 oz	1 glass = 8 oz
1 pt = 473 mL	1 teacup = 6 oz
1 pt = 2 cups	1 gtt = 1 minim
1 pt = 16 fl oz	1 gtt = 0.06 mL
1 qt = 32 oz	1 fl oz = 3.96 mL
1 qt = 2 pints	1 fl oz = 60 minims
1 qt = 0.946 L	1 fl oz = 8 fl dr
1 qt = 4 cups	1 fl oz = 6 tsp
4 qt = 1 gal	1 fl oz = 2 Tbsp
4 qt = 16 cups	1 fl oz = 29.57 mL
1 gal = 3,785 mL	1 dr = 27 ¹ / ₂ gr
1 gal = 3,785 L	1 oz = 16 dr

Abbreviations	dL	dekaliter	kL	kiloliter	Tbsp	tablespoon
dL	centiliter	fluidounce	pt	pint	tsp	teaspoon
dL	deciliter	fluidram	qt	quart	gtt	drop
		hectoliter	gal	gallon		

Temperature

Equivalents	
0°C = 32°F	°C = degrees Celsius
35°C = 95°F	(centigrade)
37°C = 98.6°F	°F = degrees Fahrenheit
100°C = 212°F	
(Boiling water)	

Hot/Cold Application Temperatures

Description	°F	°C
Very hot	105–115	41–46
Hot	98–105	37–41
Warm	93–98	34–37
Tepid	80–93	26–34
Cool	65–80	18–26
Cold	50–65	10–18

°F	°C	°F	°C
97.0	36.1	103.0	39.4
98.0	36.7	104.0	40.0
98.6	37.0	105.0	40.6
99.0	37.2	106.0	41.1
100.0	37.8	107.0	41.7

Formulas

°C = °F - 32/1.8 [°F minus 32 divided by 1.8]
 °F = °C x 1.8 + 32 [°C multiplied by 1.8 plus 32]

Normal Body Temperatures by Site

	Oral	Rectal	Axillary	Tympanic
°F	98.6	99.5	97.6	98.6
°C	37.0	37.5	36.4	37.0

Math Formulas In Medical Field

American Council on Education



Math Formulas In Medical Field:

A Journey Through Math-Land Reza Noubary, 2021-11-02 If you look at math by eyes you see symbols by brain knowledge by heart truth and by soul God This book is about flying over math land enjoying the view and landing safely It seems inconceivable how much we rely on mathematics numbers in our daily lives and how natural it feels Our birth is announced by a set of numbers representing the time date and our height and weight We become a functioning member of society only after a Social Security number is assigned to us Our health and fitness are evaluated using numbers representing our blood pressure heart rate body temperature and so on From that point onward every action performed and every life encountered becomes part of our ongoing use of mathematics numbers This book traces applications of mathematics The goal is to find a way to delight readers about the discipline and open the door for them to see its beauty by presenting a variety of applications It is particularly useful for the individuals with some mathematics background or interests

Learning Objects for Instruction: Design and Evaluation Taylor Northrup, Pamela, 2007-04-30 Learning Objects for Instruction shows how practical models of learning objects solutions are being applied in education organizations industry and the military It includes diverse strategies used across these groups to apply learning objects from the use of firmly grounded theoretical contexts to practical tool based solutions The reader will find a thorough history solid models and real world practices for using learning objects for instruction in a variety of settings Greater numbers of organizations are expected to embrace the use of objects for instruction as issues of standardization continue to be worked out

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The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army American Council on Education, 1980

Outcomes Conference 1-11: Methodology of Identifying, Measuring and Evaluating Outcomes of Health Service Programs, Systems, and Sub-systems, California Center for Health Services Research, University of California, Los Angeles, ... 24-27 May 1969, Pacific Grove, California, 1-3 December 1969, Universal City, California National Center for Health Services Research and Development, 1970

Scientific and Technical Aerospace Reports , 1981

The Nation's Health John Augustus Lapp, Charles-Edward Amory Winslow, Frank Leslie Rector, 1921

Nation's Health , 1921

Introduction to the Game Industry Michael E. Moore, Jennifer Sward, 2007 This book gives you a complete overview of how to create and market electronic games You learn how the process works from creating an idea for a game describing the game concept in production documents building game assets such as artwork game data and code to final packaging and marketing of the product Author Michael Moore provides comprehensive coverage of key game industry concepts such as the elements of gameplay interface design storytelling and the economics of producing a successful game back cover

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 William E. Hopke,1990 **The Computer Challenge** Donna Hussain,Khateeb M. Hussain,1987 The Johns Hopkins
Medical Journal ,1978 **School Science and Mathematics** ,1916 *The 1982 Guide to the Evaluation of Educational*
Experiences in the Armed Services American Council on Education,1982 **Monthly List of Russian Accessions** Library
 of Congress. Processing Department,1957-04 **American Men of Science** James McKeen Cattell,Jaques Cattell,1921

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a 25.0 ml sample of 0.100 M hydrochloric acid with 0.100 M sodium hydroxide the values of the pH measured after successive additions of small amounts of NaOH are listed in the first column of this table and are graphed in

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web the above equation works only for neutralizations in which there is a 1:1 ratio between the acid and the base the example below demonstrates the technique to solve a titration problem for a titration of sulfuric acid with sodium hydroxide

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web Oct 13 2022 an acid base titration is a quantitative analysis method used to determine the concentration of an acid or base by neutralizing the acid or base with a known concentration standard solution the concentration of a solution can be determined by knowing the acid and base dissociation constant

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web there are many types of titration when considering goals and procedures however the most common types of titration in quantitative chemical analysis are redox titration and acid base titration titrations can be classified as acid base titrations redox titrations precipitation titrations complexometric titrations

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web Nov 16 2023 acid base titration acid base titration is one of the four titration methods which is a quantitative method to analyze and determine an acid's or base's concentration in the solution by neutralizing them precisely with the help of a standard solution which could be of either base or acid of a known concentration

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progresses let us be clear about some terminologies before we get into the discussion of titration curves titrant solution of a known concentration which is added to another solution whose concentration has to be determined

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