



# Medical Math



## basics

### Prefixes

Equivalents	Abbreviations
mega-	M
kilo-	k
hecto-	h
deka- / deca-	da
deci-	d
one-tenth	c
centi-	m
one-hundredth	mc
milli-	
one-thousandth	
micro-	
one-millionth	

mega-	mega-
kilo-	kilo-
hecto-	hecto-
deka- / deca-	deka- /
deci-	deci-
centi-	centi-
milli-	milli-
micro-	micro-

### Length

Equivalents	
1 mm = 0.1 cm	1 m = 1,000 mm
1 mm = 0.394 in	1 m = 100 cm
1 cm = 10 mm	1 m = 1.09 yards
10 mm = 1 cm	1 m = 3.28 ft
10 cm = 0.39 in	1 mm = 39.37 in
2.5 cm = 1 in	1 dm = 3.94 in
2.5 cm = 25.4 mm	1 dam = 32.81 ft
1 ft = 12 in	1 km = 0.62 mile
1 yard = 3 ft	1 km = 3,280.08 ft

Abbreviations	
mm	millimeter
cm	centimeter
dm	decimeter
dam	dekameter
m	meter

in	inch
ft	foot/feet

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 <sup>2</sup> )	=	100 square millimeters (mm <sup>2</sup> )
1 cubic decimeter	=	1,000 cubic centimeters (cm <sup>3</sup> )
1,000 cubic meter (m <sup>3</sup> )	=	1 cubic decimeters

Abbreviations	
cc	cubic centimeter

### Weight

#### Equivalents

1 grain	=	64.79 milligrams
20 grains	=	1 scruple
60 grains	=	2.19 drams
8 drams	=	1 ounce
1 gram	=	15 grains
1 gram	=	1,000 milligrams
1 gram	=	0.04 ounce
1 gram	=	1 milligram
10 grams	=	1 dekagram
1 dekagram	=	0.35 ounce
100 grams	=	1 hectogram
1 hectogram	=	3.53 ounces

#### Abbreviations

dr	dram	mg	microgram
g	gram	mg	milligram
gr	grain	ml	milliliter
kg	kilogram	oz	ounce
L	liter	Tbsp	tablespoon
lb	pound	tsp	teaspoon

1 milligram	=	1,000 micrograms
1 milligram	=	0.001 gram
1 centigram	=	0.15 grain
1 centigram	=	0.01 gram
1 decigram	=	0.1 gram
1 decigram	=	1.54 grains
1 kilogram	=	1 liter
1 kilogram	=	2.2 pounds
1 kilogram	=	1,000 grams
1 ounce	=	28.35 grams / 16 drams
1 Tbsp	=	15 grams
1 Tbsp	=	4 drams
1 Tbsp	=	3 tsp
1 pound	=	16 ounces
1 pound	=	.45 kilogram

#### Formulas

kg = lb x 0.454
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
16 gts = 1 ml
1 milliliter = 0.001 liter
1,000 milliliters = 1 liter
1 centiliter = 0.01 L
1 deciliter = 0.1 L
1 deciliter = 100 milliliters
1 dekalliter = 10 L
1 hectoliter = 100 L
1 kiloliter = 1,000 L
1 cup = 8 ounces

1 cup = 237 milliliters
1 cup = 240 ml
1 pint = 16 ounces
1 pint = 473 milliliters
1 pint = 2 cups
1 pint = 16 fluidounces
1 quart = 32 ounces
1 quart = 2 pints
1 quart = 1.136 liters
1 quart = 4 cups
4 quarts = 1 gallon
4 quarts = 16 cups
1 gallon = 3,785 ml

1 gallon = 4 liters
1 gallon = 4 quarts
1 glass = 8 ounces
1 teaspoon = 5 ounces
1 drop = 1 minim
1 drop = 0.06 milliliters
1 fluidram = 4 milliliters
1 fluidram = 60 minims
1 fluidounce = 8 fluidrams
1 fluidounce = 6 tsp
1 fluidounce = 2 Tbsp
1 fluidounce = 8 fluidrams
1 fluidounce = 30 ml

1 dram = 60 grains
1 ounce = 8 drams
1 ounce = 2 Tbsp
1 ounce = 6 tsp
1 tsp = 60 drops
1 tsp = 1 fluidram
1 tsp = 4-5 ml
1Tbsp = 3 tsp
1 Tbsp = 180 drops
1 Tbsp = 1/2 ounce
1 Tbsp = 16 ml
1 ml = 60 microdrops
1 ml = 15 minims

Abbreviations	
cL	centiliter
dL	deciliter

dL	dekiliter
foz	fluidounce
flr	fluidram
hl	hectoliter

kL	kiloliter
pt	pint
qt	quart
gal	gallon

Tbsp	tablespoon
tsp	teaspoon
gtt	drop

### Temperature

Equivalents
0 °C = 32 °F
35 °C = 95 °F
98.6 °F = 37 °C
212 °F = 100 °C

Abbreviations	
°C	degrees Celsius
°F	(centigrade) degrees Fahrenheit

### 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	100.0	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 * 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

# Formulas For Medical Math Problems

**EW Minium**



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