

# Medical Math (Quickstudy: Academic)

Inc. BarCharts

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**basics**

**Prefaces**

Equivalents: mega- 1,000,000; kilo- 1,000; hecto- 100; deka/deca- 10; deci- 1/10; centi- 0.1; milli- 1/100; micro- 0.001

Abbreviations: M mega-; k kilo-; h hecto-; da deka-; d deci-; centi-; m milli-; mc micro-

**Length**

Equivalents: 1 mm = 0.1 cm; 1 cm = 0.39 in; 1 in = 2.54 cm; 1 ft = 12 in; 1 yd = 3 ft

Abbreviations: m millimeter; cm centimeter; dm decimeter; m meter

**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 cubic meter (m<sup>3</sup>) = 1,000 cubic decimeters

Abbreviations: cc cubic centimeter

**Weight**

Equivalents: 1 gr = 64.79 mg; 20 gr = 1 scruple; 40 gr = 2.79 oz; 16 oz = 1 lb; 1 g = 15.432 gr; 1 g = 1,000 mg; 1 g = 0.035 oz; 1 g = 1 mL; 10 g = 1 dekagram; 1 dekagram = 0.35 oz; 100 g = 1 hectogram; 1 hectogram = 3.53 oz

Abbreviations: gr dram; g gram; gr grain; kg kilogram; L liter

**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 pt = 16 oz; 15 gals = 1 mL; 1 mL = 0.001 L; 1,000 mL = 1 L; 1 dL = 0.01 L; 1 dL = 0.1 L; 1 dL = 100 mL; 1 dL = 10 L; 1 hectoliter = 100 L; 1 kiloliter = 1,000 L; 1 cup = 8 oz; 1 gal = 3.785 L

Abbreviations: dL deciliter; cL centiliter; dL deciliter; HL hectoliter

**Temperatures**

Equivalents: 0°C = 32°F; 37°C = 98.6°F; 100°C = 212°F

Abbreviations: °C degree Celsius; °F (Fahrenheit) 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
Rapid	80 - 93	26 - 34
Cool	65 - 80	18 - 26
Cold	50 - 65	10 - 18

**Formulas**

°C = (°F - 32) ÷ 1.8; °F = (°C × 1.8) + 32

Normal Body Temperatures by Site

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

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