



Units & Conversions

METRIC UNITS

Used with meters, liters, grams, etc.

Milla	=	1/1,000
Centi	=	1/100
Kilo	=	1,000
Mega	=	1,000,000

ENGLISH UNITS

12 inches	=	1 foot
3 feet	=	1 yard
5,280 feet	=	1 mile
144 in ²	=	1 ft ²
9 ft ²	=	1 yd ²
1,728 in ³	=	1 ft ³
27 ft ³	=	1 yd ³
8 fl oz	=	1 cup
2 cups	=	1 pint
2 pints	=	1 quart
4 quarts	=	1 gallon
1 gallon	=	231 in ³
1 yd ³	=	202 gal
7.48 gal	=	1 ft ³

FORCE CONVERSIONS

Conversion **TO** Metric (approximate)

Known No.	Multiply By	To Determine
Dyne	0.0001	Newtons
Pound Force	4.45	Newtons
Psi	703	Kg/m
Psi	6.89	kilopascal

Conversion **FROM** Metric (approximate)

Known No.	Multiply By	To Determine
Newtons	100,000	Dynes
Newtons	0.225	Pound Force

LINEAR CONVERSIONS

Conversion **TO** Metric (approximate)

Known No.	Multiply By	To Determine
Inches	25.4	Millimeters
Inches	2.5	Centimeters
Feet	30.5	Centimeters
Yards	0.91	Meters
Miles	1.61	Kilometers

Conversion **FROM** Metric (approximate)

Known No.	Multiply By	To Determine
Millimeters	0.039	Inches
Centimeters	0.39	Inches
Meters	3.28	Feet
Meters	1.09	Yards
Kilometers	0.62	Miles

AREA CONVERSIONS

Conversion **TO** Metric (approximate)

Known No.	Multiply By	To Determine
Square Inches	6.5	Sq Centimeters
Square Feet	0.092	Square Meters
Square Yards	0.84	Square Meters
Square Miles	2.6	Sq Kilometers

Conversion **FROM** Metric (approximate)

Known No.	Multiply By	To Determine
Sq Centimeters	0.16	Square Inches
Square Meters	10.8	Square Feet
Sq Kilometers	0.38	Square Miles



VOLUME CONVERSIONS

Conversion **TO** Metric (approximate)

Known No.	Multiply By	To Determine
Cubic Inches	16.0	Milliliters
Fluid Ounces	29.6	Milliliters
Cups	0.24	Liters
Pints	0.47	Liters
Quarts	0.95	Liters
Gallons	3.79	Liters
Cubic Feet	0.028	Cubic Meters
Cubic Yards	0.76	Cubic Meters
Cubic Feet	28.3	Liters
Cubic Yard	764.5	Liters

Conversion **FROM** Metric (approximate)

Known No.	Multiply By	To Determine
Milliliters	0.06	Cubic Inches
Milliliters	0.03	Fluid Ounces
Liters	0.036	Cubic Feet
Liters	2.1	Pints
Liters	1.06	Quarts
Liters	0.26	Gallons
Cubic Meters	35.3	Cubic Feet
Cubic Meters	1.31	Cubic Yards

WEIGHT CONVERSIONS

Conversion **TO** Metric (approximate)

Known No.	Multiply By	To Determine
Ounces	28.3	Grams
Pounds	0.45	Kilograms
Short Tons	0.91	Metric Ton

Conversion **FROM** Metric (approximate)

Known No.	Multiply By	To Determine
Grams	0.035	Ounces
Kilograms	2.2	Pounds
Metric Ton	1.1	Short Tons

DILUTION CHART FOR HYDROCHLORIC (MURIATIC) ACID TO ACHIEVE 10% SOLUTION

Degrees Baume	% Acid	# Gallons of Water to 1 Gallon of Acid
16 Be'	24.5	1.5
18 Be'	28.0	2.0
20 Be'	31.5	2.25
22 Be'	35.0	2.5
24 Be'	39.5	3.0



QUICK REFERENCE CHART – LINEAR CONVERSIONS

	INCH	MIL	CM	MM	MICRON
Inch	1	1,000	2.54	25.4	25,400
Mil	0.001	1	0.00254	0.0254	25.4
Cm	0.3937	393.7	1	10	10,000
Mm	0.03937	39.37	0.1	1	1,000
Micron	0.00003937	0.03937	0.0001	0.001	1

QUICK REFERENCE CHART – VOLUME CONVERSIONS

	US Gallon	Imperial Gallon	Liter	Cu. In.	Cu. Ft.
US Gallon	1	0.8327	3.785	231	0.1337
Imperial Gallon	1.201	1	4.546	277.4	0.1606
Liter	0.2642	0.22	1	61	0.0353
Cu. In.	0.00433	0.00361	0.0164	1	0.00058
Cu. Ft.	7.481	6.229	28.316	1,728	1

QUICK REFERENCE CHART – AREA CONVERSIONS

	Sq. In.	Sq. Ft.	Sq. Yd.	M ²
Sq. In.	1	0.006944	0.0007716	0.0006452
Sq. Ft.	144	1	0.111	0.0929
Sq. Yd.	1,296	9	1	0.8361
M²	1,550	10.7638	1.196	1



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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.

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