



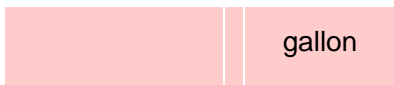
## Weights & Measures

<i>Weights</i>		<i>Linear Measure</i>		<i>Square Measure</i>	
1 Oz, Ounce	= 28.35 gm, grams	1 inch	= 2.54 sm., centimeters	sq. inch, (inch <sup>2</sup> )	= 6.452 sq. centimeters
1 gm, gram	= 0.03527 Oz, ounce	1 centimeters	= 0.3937 inch	sq. sm, (cm <sup>2</sup> )	= 0.1550 sq. inch
1 LB, Pound	= 0.4535* Kg, Kilogram	1 foot	= 0.3048 m, meters	sq. foot, (ft <sup>2</sup> )	= 0.0929 sq. meter, (m <sup>2</sup> )
1 Kg, Kilogram	= 2.2046* LB	1 m, meter	= 39.37 inches = 3.2808 feet = 1.0936 yard	sq. meter, (m <sup>2</sup> )	= 1.196 sq. yard, (yard <sup>2</sup> )
1 MT, Metric Tonn	= 1,000 Kg = 2,2046 LB = 0.98421 English Ton	1 yard	= 0.9144 meter	sq. yard, (yrd <sup>2</sup> )	= 0.8361 sq. meter, (m <sup>2</sup> )
1 ET, English Ton	= 1,016 MT	1 rod	= 5.029 meter	hectare	= 2.47 acres
		1 kilometer	= 1,000 meters = 0.621 mile	acre	= 0.4047 hectare

<b>Dry Measure</b>			1 mile =	1,609 kilometers	sq. kilometer, (km <sup>2</sup> ) =	0.386 sq. mile, (mi <sup>2</sup> )
			12 inches =	1 foot	sq. mile, (mi <sup>2</sup> ) =	2.59 sq. kilometer, (km <sup>2</sup> )
2 pints =	1 quart					
8 quarts =	1 peck	3 feet =	1 yard		144 sq. inches, (inch <sup>2</sup> ) =	1 sq. foot, (ft <sup>2</sup> )
4 pecks =	1 bushel	5 1/2 yards =	1 rod		9 sq. feet, (ft <sup>2</sup> ) =	1 sq. yard, (yard <sup>2</sup> )
		40 rods =	1 furlong (Horse racing)		30 1/4sq. yard, (yrd <sup>2</sup> ) =	1 sq. rod
		8 furlongs =	1 statute mile		640 acres =	1 sq. mile (mi <sup>2</sup> )
		3 land miles =	1 league			

<b>Measure of Volume</b>		<b>Marine Measure</b>		<b>Imperial Liquid Measure</b>	
1 cubic inch (inch <sup>3</sup> ) =	16.39 cubic centimeters, (cm <sup>3</sup> )	6 feet =	1 fathom	1 US gallon =	0.833 imperial gallon
1 cubic centimeters(cm <sup>3</sup> ) =	0.061 cubic inch, (inch <sup>3</sup> )	120 fathoms =	1 cable length	1 Imperial gallon =	1.201 US gallon
1 cubic foot (ft <sup>3</sup> ) =	0.0283 cubic meters, (m <sup>3</sup> )	5,280 feet =	1 statute mile	1 Imperial gallon =	4.546 Liters
1 cubic meter(m <sup>3</sup> ) =	1.308 cubic yards	6,076.11 feet =	1 nautical mile	1 Liter =	0.264 US gallon
1 cubic yard =	0.7646			1 Fl.Oz,	

(yard <sup>3</sup> )	= cubic meter, (m <sup>3</sup> )			Liquid Ounce	=	29.574 mL
1 liter, l	= 1.0567 quarts liquid			16 Fl.Oz, Liquid Ounce	=	473.184 mL
1 quart dry	= 1.101 liters					
1 quart liquid	= 0.9463 liters	<b>Comparative Thermometer Reading</b>		<b>Engineering Data</b>		
1 gallon, GL	= 3.78541 liters	Fahrenheit to Celcius	Celcius to Fahrenheit	PSI	=	2.31 Foot
1 peck	= 8.810 liters	Subtract 32 from the number of Fahrenheit, then multiply by 5/9 (5/9 = 0.55555...)	Multiply the number of Celcius by 5/9 and add 32 (5/9 = 0.55555...)	Foot	=	0.433 PSI
1 hectoliter	= 2.8375 bushels			Foot	=	0.3048 Meters
4 gills	= 1 pint			Meters	=	3.28 Foot
2 pints	= 1 quart			Galon	=	3.785 Liters
4 quarts	= 1 gallon			Liters	=	0.2642 Galons
31 1/2 gallons	= 1 barrel			Galon per Minute	=	0.06308 Liters / Sec.
1,728 cubic inches	= 1 cubic foot			Galon per Minute	=	227.1 Liters / Hr
27 cubic feet	= 1 cubic yard			Galon per Minute	=	0.2272 Cubic Meters/Hr
128 cubic feet	= 1 cord (wood)			Cubic Meter/Hr	=	4.4021 Galons/Minute
2,150.42 cubic inches	= 1 standard Bu.			Cubic Meter/Hr	=	0.2778 Liters/Sec
231 cubic inches	= 1 U.S. standard			Galon /	=	0.002228 Cubic Feet /



\* Approximations

16 Oz = 1 Lb (Pound) = 0.4536 or 0.454 Kg\* (Kilogram)

1 Kg = 2.2045855 or 2.2\* LB

1 MT (Metric Tonn) = 1,000 Kg = 2,204.6 LB or 2,200\* LB ..

Minute	=	Sec.
Cubic Feet/Sec.	=	448.831 Galon /Minute
HP (Horse Power)	=	0.7457 Kw
Kw	=	1.341 HP
°F	=	$\frac{5}{9} X (°F - 32)°C$
°C	=	$\frac{9}{5} x °C + 32$

## Conversion Factors

Length	Multiply by
Inches to Centimeters	2.54
Centimeters to Inches	0.39
Inches to Millimeters	25.40
Millimeters to Inches	0.04
Feet to Meters	0.31
Meters to Feet	3.28
Yards to Meters	0.91
Meters to Yards	1.09
Miles to Kilometers	1.61
Kilometers to Miles	0.62

Area Multiply by

Square Inches to Square Centimeters 6.451

Square Centimeters to Square Inches 0.15

Square Feet to Square Meters 0.09

Square Meters to Square Feet 10.76

Square Yards to Square Meters 0.84

Square Meters to Square Yards 1.20

Square Miles to Square Kilometers 2.59

Square Kilometers to Square Miles 0.39

Acres to Hectares 0.40

Hectares to Acres 2.47

Volume Multiply by

Cubic Inches to Cubic Centimeters 16.39

Cubic Centimeters to Cubic Inches 0.06

Cubic Feet to Cubic Meters 0.03

Cubic Meters to Cubic Feet 35.32

Cubic Yards to Cubic Meters 0.76

Cubic Meters to Cubic Yards	1.31
Cubic Inches to Liters	0.02
Liters to Cubic Inches	61.03
Gallons to Liters	4.55
Liters to Gallons	0.22
US Gallons to Liters	3.79
Liters to US Gallons	0.26
Fluid Ounces to Cubic Milliliters	30.77
Cubic Milliliters to Fluid Ounces	0.03

Weight	Multiply by
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Ounces to Grams	28.35
Grams to Ounces	0.04
Pounds to Kilograms	0.45
Kilograms to Pounds	2.21
Long Tons to Tones	1.02
Tones to Long Tons	0.98
Short Tons to Tones	0.91
Tones to Short Tons	1.10