



Metric System

The three basic metric units are the meter (length), the gram (weight), and the liter (volume).
The key to metric prefixes are:

- 1000 = kilo
- 100 = hecto
- 10 = deca
- 0.1 = deci
- 0.01 = centi
- 0.001 milli

COMMON MEASUREMENTS

Length	
1 kilometer	= 0.62137 mi
1 meter	= 3.2808 ft
1 centimeter	= 0.3937 in
1 mile	= 1.6093 km
1 foot	= 0.3048 m
1 inch	= 2.54 cm

Volume			
1 hectoliter	= 100 l	= 0.1 m ³	= 26.4172 gal
1 liter	= 100 cl	= 1 dm ³	= 1.0567 qt
1 gallon (U.S.)	= 3.7853 l		
1 cubic inch	= 16.3871 cm ³		

Weight	
1 kilogram	= 2.2046 lbs
1 gram	= 0.0353 oz
1 short ton	= 907.1847 kilos
1 pound	= 0.4536 kilos
1 ounce	= 28.3495 g

Area		
1 square kilometer	= 1 million m ²	= 0.3861 mi ²
1 hectare	= 10,000 m ²	= 2.471 acres
1 square meter	= 10.7639 ft ²	= 1550.003 in ²
1 square mile	= 640 acres	= 258.9988 ha ²
1 square foot	= 144 in ²	= 929.0304 cm ²



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EASY CONVERSIONS

	Symbol	If You Know	Multiply By	To Find	Symbol
Length	mm	millimeters	0.03937	inches	in
	cm	centimeters	0.3937	inches	in
	m	meters	3.3	feet	ft
	m	meters	1.1	yards	yd
	km	kilometers	0.6	miles	mi
	in	inches	2.54	centimeters	cm
	ft	feet	30.48	centimeters	cm
	yd	yard	0.9	meters	m
	mi	miles	1.6	kilometers	km
	Area	cm ²	square centimeters	0.16	square inches
m ²		square meters	1.2	square yards	yd ²
km ²		square kilometers	0.4	square miles	mi ²
ha ²		hectares (10,000 m ²)	2.5	acres	
in ²		square inches	6.5	sq. centimeters	cm ²
ft ²		square feet	0.09	square meters	m ²
yd ²		square yard	0.8	square meters	m ²
mi ²		square miles	2.6	sq. kilometers	km ²
Weight	g	grams	0.035	ounce	oz
	kg	kilograms	2.2046	pounds	lb
	t	tonnes (1,000 kq)	1.1	short tons	
	oz	ounces	28.3495	grams	g
	lb	pounds	0.45	kilograms	kg
Volume	ml	milliliters	0.03	fluid ounces	fl oz
	l	liters	2.1	pints	pt
	l	liters	1.06	quarts	qt
	l	liters	0.26	gallons	gal
	m ³	cubic meters	35.314	cubic feet	ft ³
	m ³	cubic meters	1.3	cubic yards	yd ³
	tsp	teaspoons	5	millimeters	ml
	tbsp	tablespoons	15	millimeters	ml
	fl oz	fluid ounces	30	millimeters	ml
	c	cups	0.24	liters	l
	pt	pints	0.47	liters	l
	qt	quarts	0.95	liters	l
	gal	gallons	3.8	liters	l
	ft ³	cubic feet	0.03	cubic meters	m ³
	yd ³	cubic yards	0.76	cubic meters	m ³