

# Metric/English/US Measures Unit Conversion Table

## Linear Measure (length/distance)

English/US	equals (English/US)	Metric
1 inch		2.54 centimeters
1 foot	12 inches	0.3048 meters
1 yard	3 feet	.9144 meters
1 (statute) mile	1760 yards	1.6093 kilometers
	5280 feet	
1 nautical mile	1.15779 miles	1.852 kilometers

Metric	equals (metric)	English/US
1 millimeter		0.0394 inch
1 centimeter	10 mm	0.3937 inch
1 meter	100 cm	3.281 ft
1 kilometer	1000 m	1.0936 yards
		0.6214 miles

## Square measure (area)

English/US	equals (English/US)	Metric
1 square inch		6.4516 square cm
1 square foot	144 square inches	929 square cm
		0.0929 square meters
1 square yard	9 square feet	0.8361 square meters
1 acre	43560 square feet	4,046.9 square meters
1 square mile	640 acres	2.590 square km

Metric	equals (metric)	English/US
1 square centimeter		0.1550 sq inches
1 square meter	10,000 sq. cm	10.765 sq. ft.
		1.1960 sq. yards
1 hectare	10,000 sq. m	2.4711 acres
1 square km	100 hectares	0.3861 sq mile

## Cubic Measure (volume and capacity)

English/US	equals (English/US)	Metric
<i>volume</i>		
1 cubic inch		16.4 cubic centimeters
1 cubic foot	1728 cubic inches	28316 cubic cm
		0.0283 cubic meters
1 cubic yard	27 cubic feet	0.765 cubic meters
<i>capacity (US Measures)</i>		
1 fl. oz.		29.574 ml
1 cup	8 fl oz.	236.59 ml
1 (liquid) pint	16 fl oz.	473.18 ml
1 quart	32 oz	946.36 ml
1 (liquid) gallon	4 quarts	3.785 liters

Metric	equals (metric)	English/US
1 cubic centimeter	1 ml	0.0610 cubic inch
1 cubic meter	1,000,000 cu. cm	1.308 cubic yards
		61.023 in <sup>3</sup>
1 milliliter	1 cubic cm	0.034 oz
1 liter	1000 ml	1.057 quart
		0.26418 gal
		0.02838 bushel
		61.02 in <sup>3</sup>

## Mass (weight)

English/US	equals (English/US)	Metric
1 ounce		28.35 grams
1 pound	16 ounces	0.4536 kg
		453.6 g
1 stone	14 pounds	6.35 kilograms
1 ton		0.907 metric ton
1 ton	2,000 pounds	907.185 lb

Metric	equals (metric)	English/US
1 milligram		0.000035 oz
1 gram	1000 mg	0.035 oz
1 kg	1000 g	2.205 lb
1 metric ton		2205 lb
1 metric ton	1000 kg	1.1025 tons

## Density (mass/volume)

English/US	equals (English/US)	Metric
1 lb/ft <sup>3</sup>		62.428 g/cm <sup>3</sup>
1 lb/gal	7.4805 lb/ft <sup>3</sup>	0.008345 kg/m <sup>3</sup>

Metric	equals (metric)	English/US
1 g/cm <sup>3</sup>		0.0160185 lb/ft <sup>3</sup>
1 kg/m <sup>3</sup>	1000 g/cm <sup>3</sup>	119.82 lb/gal

## Temperature

Known	Unknown	equation to convert
° F (Fahrenheit)	°C=	((°F-32)/1.8
°C (Celsius)	°F=	(°C x 1.8)+32
°C	K (Kelvin) =	°C + 273
K	°C=	K - 273

Temperature is a special case in which temperature scales are very different, so, you need to do multiple operations to convert from metric (Celsius) to Imperial (Fahrenheit) and vice versa. If you know °F, use the equation in the third column to convert to °C. If you know °C, use the equation in the last column to convert to °F.

## Angular measurements

Measurement	equivalent
complete circle	360 degrees (°)
1 °	60 minutes (')
1 '	60 seconds (")