

# Metric and Imperial Conversions

[Length](#) - [Area](#) - [Capacity & Volume](#) - [Weight](#) - [US measures](#) - [Temperature](#)

Some useful conversion (imperial, metric), length, area, capacity, weight, US measures and temperature factors.

**Length** [Area](#) - [Capacity & Volume](#) - [Weight](#) - [US measures](#) - [Temperature](#)

1 centimetre (cm)	= 10 millimetres (mm)	= 0.3937 inches (in)
1 decimetre (dm)	= 10 cm	= 3.937 inches
1 metre (m)	= 10 dm = 100 cm	= 1.0936 yards (yds)
1 kilometre (km)	= 1000 m	= 0.6214 miles (M)
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1 inch (in)		= 2.54 cm
1 foot (ft)	= 12 inch	= 30.48 cm
1 yd	= 3 ft = 36 in	= 0.9144 m
1 mile	= 1760 yd	= 1.6093 km

**Area** [Length](#) - [Capacity & Volume](#) - [Weight](#) - [US measures](#) - [Temperature](#)

1 sq cm	= 100 sq mm	= 0.155 sq in
1 sq metre	= 10,000 sq cm	= 1.196 sq yd
1 sq km	= 100 hectares (ha)	= 0.3861 sq mile
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1 sq inch		= 6.4516 sq cm
1 sq yard	= 9 sq ft	= 0.8361 sq m
1 sq mile	= 640 acres	= 2.59 sq km

**Capacity and volumes** [Length](#) - [Area](#) - [Weight](#) - [US measures](#) - [Temperature](#)

1 cu centimetres (cc)		= 0.0610 cu inch
1 cu metre	= 1000 cu decimetres	= 1.3080 cu yds
1 litre (l)	= 1 cu dm = 1000 cc	= 0.2200 imperial gallons (gal)
1 hectolitre (hl)	= 100 l	= 21.997 gal
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1 cu inch		= 16.387 cc
1 cu ft	= 6.23 gall = 49.86 pt	= 28.33 l
1 cu yard	= 27 cu ft	= 0.7646 cu m
1 imperial pint (pt)	= 20 fluid ounces (fl oz)	= 0.5683 l
1 gall	= 8 pt = 0.16 cu ft	= 4.546 l

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## **Weight** [Length](#) - [Area](#) - [Capacity & Volume](#) - [US measures](#) - [Temperature](#)

1 gram (g)	= 1000 milligram (mg)	= 0.0353 ounce (oz)
1 kilogram (kg)	= 1000 g	= 2.2046 pounds (lb)
1 tonne (t)	= 1000 kg	= 0.9842 ton
1 ounce (oz)	= 437.5 grains	= 28.35 gram (g)
1 pound (LB)	= 16 oz	= 0.4536 kg
1 ton	= 20 hundredweight (cwt)	= 1.016 tonne

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## **US measures** [Length](#) - [Area](#) - [Capacity & Volume](#) - [Weight](#) - [Temperature](#)

1 US dry pint	= 33.6 cu in	= 0.5506 l
1 US liquid pint	= 0.8327 imperial pint	= 0.4732 l
1 US gallon	= 0.8327 imperial gallon	= 3.785 l
1 short cwt	= 100 LB	= 45.359 kg
1 short ton	= 2000 LB	= 907.19 kg

## **Temperature** [Length](#) - [Area](#) - [Capacity & Volume](#) - [Weight](#) - [US measures](#)

	degree C	degree F
	0	32
Temperature conversion:	5	41
	20	68
	30	86
degrees C = $5/9 * (\text{degrees F} - 32)$	40	104
	50	122
	60	140
degrees F = $(9/5 * \text{degree C}) + 32$	70	158
	80	176
	90	194
	100	212

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