

METRIC CONVERSION TABLES

The bold figures in the central columns can be read as either the metric or the British Imperial measure. Thus 1 inch = 2.54 centimetres; or 1 centimetre = .3937 inch. For tens, move decimal point one place to the right, for hundreds two places, etc. Then convert high er quantities thus : 2 ft . 9 in. = 33 in. = 76.2 cm + 7.62 cm. = 83.82 cm.

LINEAR			AREA		VOLUME		CAPACITY				
Inches	Centimetres	Sq. Inches	Sq. Cms.	Cu. Inches	Cu. Cms.	Gallons	Litres				
0.393700	1	2.54000	0.15500	1	6.45160	0.061024	1	16.38706	0.21997	1	4.54609
0.787402	2	5.08000	0.31000	2	12.90320	0.122048	2	32.77413	0.43994	2	9.09218
1.181102	3	7.62000	0.46500	3	19.35480	0.183072	3	49.16119	0.65991	3	13.63827
1.574803	4	10.16000	0.62000	4	25.80640	0.244096	4	65.54826	0.87988	4	18.18436
1.968504	5	12.70000	0.77500	5	32.25800	0.305120	5	81.93532	1.09985	5	22.73045
2.362205	6	15.24000	0.93000	6	38.70960	0.366144	6	98.32238	1.31982	6	27.27654
2.755906	7	17.78000	1.08500	7	45.16120	0.427168	7	114.70945	1.53979	7	31.82263
3.149606	8	20.32000	1.24000	8	51.61280	0.488192	8	147.48358	1.97973	8	40.91481
3.543307	9	22.86000	1.39500	9	58.06440	0.549216	9	147.48358	2.22719	9	46.02916

Feet	Metres	Sq. Feet	Sq. Metres	Cu. Feet	Cu. Metres	Mass Ounces	Grams				
3.280840	1	0.3048	10.76391	1	0.09290	35.31467	1	0.02832	0.35274	1	28.349523
6.561680	2	0.6096	21.52782	2	0.18580	70.72934	2	0.05664	0.070548	2	56.699046
9.842520	3	0.9144	32.29173	3	0.27870	105.94401	3	0.08496	0.105812	3	85.048569
13.123359	4	1.2192	43.05564	4	0.37160	141.25868	4	0.11328	0.141096	4	113.398092
16.404199	5	1.5240	53.81955	5	0.46450	176.57335	5	0.14160	0.176370	5	141.747615
19.685038	6	1.8288	64.58346	6	0.55740	211.88802	6	0.160992	0.211644	6	170.097138
22.965878	7	2.1336	75.34737	7	0.65030	247.20269	7	0.19824	0.246918	7	198.446661
26.246718	8	2.4384	86.11128	8	0.74320	282.51736	8	0.22656	0.282192	8	226.796184
29.527558	9	2.7432	96.87519	9	0.83610	317.83203	9	0.25488	0.317466	9	255.145707

Yards	Metres	Sq. Yards	Sq. Metres	Cu. Yards	Cu. Metres	Pounds	Kilograms				
1.093613	1	0.91440	1.19599	1	0.83613	1.30795	1	0.76455	2.204622	1	0.453592
2.187226	2	1.82880	2.39198	2	1.67226	2.61590	2	1.52910	2.409244	2	0.907184
3.280839	3	2.74320	3.58797	3	2.50839	3.92180	3	2.29365	6.613866	3	1.360776
4.374452	4	3.65760	4.78396	4	3.34453	5.23180	4	3.05820	8.818488	4	1.814368
5.468065	5	4.57200	5.97995	5	4.18065	6.53975	5	3.82275	11.023110	5	2.267960
6.561678	6	5.48640	7.17594	6	5.01678	7.84770	6	4.58730	13.227732	6	2.721552
7.655291	7	6.40080	8.37193	7	5.85291	9.15565	7	5.35185	15.432354	7	3.175144
8.748904	8	7.31520	9.56792	8	6.68904	10.46360	8	6.11640	17.636976	8	3.628736
9.842517	9	8.22960	10.76391	9	7.52517	11.77155	9	6.88095	19.841598	9	4.082328

CAPACITY											
Miles	Kilometres	Acres	Hectares	Pints	Litres	Cwt.	Kilograms				
0.621371	1	1.60934	2.41710	1	0.40469	1.75976	1	0.58826	0.019684	1	50.80234
1.242742	2	3.21869	4.94210	2	0.80938	3.51952	2	1.13652	0.039368	2	101.60469
1.864113	3	4.82803	7.41315	3	1.21407	5.27929	3	1.70478	0.059052	3	152.40704
2.485484	4	6.43738	9.88420	4	1.61876	7.03904	4	2.27305	0.078736	4	203.20938
3.106855	5	8.04672	12.35525	5	2.02345	8.79880	5	2.84131	0.098420	5	254.01173
3.728226	6	9.65606	14.82630	6	2.42814	10.55856	6	3.40957	0.118104	6	304.81408
4.349597	7	11.26541	17.29735	7	2.83283	12.31832	7	3.97783	0.13778	7	355.61642
4.970968	8	12.87475	19.76840	8	3.23752	14.07808	8	4.54609	0.157472	8	406.41977
5.592339	9	14.48410	22.23945	9	3.64221	15.83784	9	5.11435	0.177156	9	457.22112

POWER											
Horsepower	Kilowatts	Sq. Miles	Sq. Kilometres	Quarts	Litres	Tons	Kilograms				
1.341022	1	0.7457	0.38610	1	2.58999	0.87988	1	1.13652	0.000984	1	1016.0469
2.689204	2	1.4914	0.77220	2	5.17998	1.75976	2	2.27304	0.001968	2	2032.0938
4.023066	3	2.2371	1.15830	3	7.76997	2.63964	3	3.40956	0.002952	3	3048.1407
5.364088	4	2.9828	1.54440	4	10.35996	3.5152	4	4.54608	0.003936	4	4064.1876
6.705110	5	3.7285	2.93050	5	12.94995	4.39940	5	5.68260	0.004920	5	5080.2345
8.046132	6	4.4742	2.31660	6	15.53994	5.27928	6	6.81912	0.005904	6	6096.2814
9.387154	7	5.2199	2.70270	7	18.12993	6.15916	7	7.95564	0.006888	7	7112.3283
10.728176	8	5.9656	3.08880	8	20.71992	7.03904	8	9.09216	0.007872	8	8128.3752
12.069198	9	6.7113	3.47490	9	23.30991	7.91892	9	10.22868	0.008856	9	9144.4221

1 Metric ton = 1,000 Kg.

CONVERSION FACTORS

Quantity	Imperial Unit	Metric Unit	Imperial to Metric Units	Conversion Factors (Approximate) Metric to Imperial Units
Length	inch (in)	millimetre (mm) or centimetre (cm)	1 in = 25.4 mm	1 cm = 0.394 in
	foot (ft)	centimetre or metre (m)	1 ft = 30.5 cm / 0.3045 m	1 m = 3.281 ft / 1.094 yard
	yard (yd)	metre (m)	1 yd = 0.914 m	1 m = 1.09 yd
	furlong (fur)	metre (m) or kilometre (km)	1 fur = 201 m	1 km = 4.97 fur
	mile	kilometre (km)	1 mile = 1.609 km	1 km = 0.6251 mile
	international nautical mile (for navigation)	kilometre (km)	1 n mile = 1852 m	1 m = 3.28 ft
Mass	ounce (oz)	gram (g)	1 oz = 28.3 g	1 g = 0.0353 oz
	pound (lb)	gram (g) or kilogram (kg)	1 lb = 454 g	1 kg = 2.20 lb
	stone	kilogram (kg)	1 stone = 6.35 kg	1 kg = 0.157 stone
	ton	tonne (t)	1 ton = 1.02 t	1 t = 0.984 ton
Area	square inch (in ²)	square centimetre (cm ²) in	1 in ² = 6.4516 cm ²	1 cm ² = 0.155 in ²
	square foot (ft ²)	square centimetre (cm ²) or square metre (m ²)	1 ft ² = 929 cm ²	1 m ² = 10.8 ft ²
	square yard (yd ²)	square metre (m ²)	1 yd ² = 0.8361 m ²	1 m ² = 1.20 yd ²
	perch (p)	square metre (m ²)	1 p = 25.3 m ²	1 m ² = 0.0395 p
	rood (rd)	hectare (ha)	1 rd = 0.101 ha	1 ha = 9.88 rd
	acre (ac)	hectare (ha)	1 acre = 0.4047 ha	1 ha = 2.471 ac
	square mile	square kilometre (km ²)	1 square mile = 2.59 km ² or 640 acres	1 km ² = 0.386 sq. mile or 247.1 acres
Volume	cubic inch (in ³)	cubic centimetre (cm ³) in	1 in ³ = 16.387 cm ³	1 cm ³ = 0.0610 in ³
	cubic foot (ft ³)	cubic metre (m ³)	1 ft ³ = 0.0283 m ³	1 m ³ = 35.315 ft ³
	cubic yard (yd ³)	cubic metre (m ³)	1 yd ³ = 0.7646 m ³	1 m ³ = 1.308 yd ³
	bushel (bus)	cubic metre (m ³)	1 bus = 0.0400 m ³	1 m ³ = 27.5 bus
Volume (fluids)	fluid ounce (fl oz)	millilitre	1 fl oz = 28.4 ml	1 ml = 0.0352 fl oz
	pint (pt)	millilitre (ml) or litre (l)	1 pt = 568 ml	1 litre = 1.76 pt
	gallon (gal)	litre (l) or cubic (m ³)	1 gal (UK) = 4.546 litre	1 m ³ = 220 gal
	acre foot	cubic metre (m ³) or megalitre (ML)	1 gal (US) = 3.78533 litres	
			1 acre foot = 1230 m ³ 1.23 ML	1 ML = 0.811 acre foot
Force	pound-force (lbf)	newton (N)	1 lbf = 4.45 N	1 N = 0.225 lbf
	ton-force (tonf)	kilonewton (kN)	tonf = 9.96 kN	1 kN = 0.100 tonf
Pressure	pound per square inch (psi)	kilopascal (kPa)	1 psi = 6.89 kPa	1 kPa = 0.145 psi
	atmosphere (atm)	kilopascal (kPa) or megapascal (MPa)	1 atm = 101 kPa	1 MPa = 9.87 atm
	ton per square inch (ton/in ²)	megapascal (MPa)	1 ton/in ² = 15.4 MPa	1 MPa = 0.647 ton/in ²
	inch of mercury (in Hg)	millibar (b)	1 in Hg = 33.9 mb	1 mb = 0.0295 in Hg
	(for meteorology)		1 mb = 100 Pa	
Velocity	mile per hour (mph)	kilometre per hour (km/h)	1 mph = 1.61 km/h	1 km/h = 0.621 mph
	knot (kn) (for navigation)		= 1 kn = 1.85 km/h	
Temperature	degree Fahrenheit (°F)	degree Celsius (°C)	°C = $\frac{5}{9}(F - 32)$	°F = $\frac{9}{5}(C + 32)$
Density	pound per cubic inch (lb/in ³)	gram per cubic centimetre (g/cm ³)	1 lb/in ³ = 27.7 g/cm ³	1 g/cm ³ = 0.0361 lb/in ³
	ton per cubic yard	tonne per cubic metre (t/m ³)	1 lb/in ³ = 27.7 t/m ³	1 t/m ³ = 0.0361 lb/in ³
Energy	British thermal unit (Btu)	kilojoule (kJ)	1 Btu = 1.06 kJ	1 kJ = 0.948 Btu
	therm	megajoule (MJ)	1 therm = 106 MJ	1 MJ = 9.48 x 10 therm
	(for electrical energy)	kilowatt hour (kWh)	= kWh = 3.60 MJ	
Power	horsepower (hp)	kilowatt (kW)	1 hp = 0.746 kW	1 kW = 1.34 hp
Time		second(s)		
		minute (min)	1 min = 60s	
		hour (h)	1 h = 3600s	
Frequency	cycle per second (c/s)	hertz (Hz)	1 c/s = 1.Hz	1 Hz = 1.c/s
Angular Velocity	revolution per minute (rpm)	radian per second (rad/s)	1 rpm = 0.105 rad/s	1 rad/s = 9.55 rpm.
			revolution per minute (rpm)	