

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

<b>LINEAR</b>			<b>AREA</b>			<b>CAPACITY</b>		
<i>Inches</i>		<i>Centimetres</i>	<i>Sq. Yards</i>		<i>Sq. Metres</i>	<i>Pints</i>		<i>Litres</i>
.393700	<b>1</b>	2.54000	1.19599	<b>1</b>	.83613	1.75976	<b>1</b>	.56826
.787402	<b>2</b>	5.08000	2.39198	<b>2</b>	1.67226	3.51952	<b>2</b>	1.13652
1.181102	<b>3</b>	7.62000	3.58797	<b>3</b>	2.50839	5.27928	<b>3</b>	1.70478
1.574803	<b>4</b>	10.16000	4.78396	<b>4</b>	3.34453	7.03904	<b>4</b>	2.27305
1.968504	<b>5</b>	12.78000	5.97995	<b>5</b>	4.18065	8.79880	<b>5</b>	2.84131
2.362205	<b>6</b>	15.24000	7.17594	<b>6</b>	5.01678	10.55856	<b>6</b>	3.40957
2.755906	<b>7</b>	17.78000	8.37193	<b>7</b>	5.85291	12.31832	<b>7</b>	3.97783
3.149606	<b>8</b>	20.32000	9.56792	<b>8</b>	6.68904	14.07808	<b>8</b>	4.54609
3.543307	<b>9</b>	22.86000	10.76391	<b>9</b>	7.52517	15.83784	<b>9</b>	5.11435
<i>Yards</i>		<i>Metres</i>	<i>Acres</i>		<i>Hectares</i>	<i>Gallons</i>		<i>Litres</i>
1.093613	<b>1</b>	.91440	2.47105	<b>1</b>	.40469	.21997	<b>1</b>	4.54609
2.187226	<b>2</b>	1.82880	4.94210	<b>2</b>	.80938	.43994	<b>2</b>	9.09218
3.280839	<b>3</b>	2.74320	7.41315	<b>3</b>	1.21407	.65991	<b>3</b>	13.63827
4.374452	<b>4</b>	3.65760	9.88420	<b>4</b>	1.61876	.87988	<b>4</b>	18.18436
5.468065	<b>5</b>	4.57200	12.35525	<b>5</b>	2.02345	1.09985	<b>5</b>	22.73045
6.561678	<b>6</b>	5.48640	14.82630	<b>6</b>	2.42814	1.31982	<b>6</b>	27.27654
7.655291	<b>7</b>	6.40080	17.29735	<b>7</b>	2.83283	1.53979	<b>7</b>	31.82263
8.748904	<b>8</b>	7.31520	19.76840	<b>8</b>	3.23752	1.75976	<b>8</b>	36.36872
9.842517	<b>9</b>	8.22960	22.23945	<b>9</b>	3.64221	1.97973	<b>9</b>	40.91481
<i>Miles</i>		<i>Kilometres</i>	<i>Sq. Miles</i>		<i>Sq. Kilometres</i>	<b>WEIGHTS</b>		
						<i>Ounces</i>		<i>Grams</i>
.621371	<b>1</b>	1.60934	.38610	<b>1</b>	2.58999	.035274	<b>1</b>	28.349523
1.242742	<b>2</b>	3.21869	.77220	<b>2</b>	5.17998	.070548	<b>2</b>	56.699046
1.864113	<b>3</b>	4.82803	1.15830	<b>3</b>	7.76997	.105812	<b>3</b>	85.048569
2.485484	<b>4</b>	6.43738	1.54440	<b>4</b>	10.35996	.141096	<b>4</b>	113.398092
3.106855	<b>5</b>	8.04672	1.93050	<b>5</b>	12.94995	.176370	<b>5</b>	141.747615
3.728226	<b>6</b>	9.65606	2.31660	<b>6</b>	15.53994	.211644	<b>6</b>	170.097138
4.349597	<b>7</b>	11.26541	2.70270	<b>7</b>	18.12993	.246918	<b>7</b>	198.446661
4.970968	<b>8</b>	12.87475	3.08880	<b>8</b>	20.71992	.282192	<b>8</b>	226.796184
5.592339	<b>9</b>	14.48410	3.47490	<b>9</b>	23.30991	.317466	<b>9</b>	255.145707
<b>AREA</b>			<b>VOLUME</b>					
<i>Sq. Inches</i>		<i>Sq. Centimetres</i>	<i>Cu. Feet</i>		<i>Cu. Metres</i>	<i>Pounds</i>		<i>Kilograms</i>
.15500	<b>1</b>	6.45160	35.31467	<b>1</b>	.02832	2.204622	<b>1</b>	.453592
.31000	<b>2</b>	12.90320	70.62934	<b>2</b>	.05664	4.409244	<b>2</b>	.907184
.46500	<b>3</b>	19.35480	105.94401	<b>3</b>	.08496	6.613866	<b>3</b>	1.360776
.62000	<b>4</b>	25.80640	141.25868	<b>4</b>	.11328	8.818488	<b>4</b>	1.814368
.77500	<b>5</b>	32.25800	176.57335	<b>5</b>	.14160	11.023110	<b>5</b>	2.267960
.93000	<b>6</b>	38.70960	211.88802	<b>6</b>	.16992	13.227732	<b>6</b>	2.721552
1.08500	<b>7</b>	45.16120	247.20269	<b>7</b>	.19824	15.432354	<b>7</b>	3.175144
1.24000	<b>8</b>	51.61280	282.51736	<b>8</b>	.22656	17.636976	<b>8</b>	3.628736
1.39500	<b>9</b>	58.06440	317.83203	<b>9</b>	.25488	19.841598	<b>9</b>	4.082328
<i>Sq. Feet</i>		<i>Sq. Metres</i>	<i>Cu. Yards</i>		<i>Cu. Metres</i>	<i>Tons*</i>		<i>Kilograms</i>
10.76391	<b>1</b>	.09290	1.30795	<b>1</b>	.76455	.000984	<b>1</b>	1016.0469
21.52782	<b>2</b>	.18580	2.61590	<b>2</b>	1.52910	.001968	<b>2</b>	2032.0938
32.29173	<b>3</b>	.27870	3.92385	<b>3</b>	2.29365	.002952	<b>3</b>	3048.1407
43.05564	<b>4</b>	.37160	5.23180	<b>4</b>	3.05820	.003936	<b>4</b>	4064.1876
53.81955	<b>5</b>	.46450	6.53975	<b>5</b>	3.82275	.004920	<b>5</b>	5080.2345
64.58346	<b>6</b>	.55740	7.84770	<b>6</b>	4.58730	.005904	<b>6</b>	6096.2814
75.34737	<b>7</b>	.65030	9.15565	<b>7</b>	5.35185	.006888	<b>7</b>	7112.3283
86.11128	<b>8</b>	.74320	10.46360	<b>8</b>	6.11640	.007872	<b>8</b>	8128.3752
96.87519	<b>9</b>	.83610	11.77155	<b>9</b>	6.88095	.008856	<b>9</b>	9144.4221

\* 1 metric ton = 1,000kg





# Conversion Factors

Quantity	Imperial Unit	Metric Unit	Conversion Factors (Approximate)	
			Imperial to Metric Units	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	1 m = 3.28 ft
	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 (for navigation)	kilometre (km) international nautical mile (n mile)	1 mile = 1.61 km 1 n mile = 1.852 km	1 km = 0.621 mile
Mass	ounce (oz)	gram (g)	1 oz = 28.3 g	1 g = 0.00353 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
Area	square inch (in <sup>2</sup> )	square centimetre (cm <sup>2</sup> )	1 in <sup>2</sup> = 6.45 cm <sup>2</sup>	1 cm <sup>2</sup> = 0.155 in <sup>2</sup>
	square foot (ft <sup>2</sup> )	square centimetre (cm <sup>2</sup> ) or square metre (m <sup>2</sup> )	1 ft <sup>2</sup> = 929 cm <sup>2</sup>	1 m <sup>2</sup> = 10.8 ft <sup>2</sup>
	square yard (yd <sup>2</sup> )	square metre (m <sup>2</sup> )	1 yd <sup>2</sup> = 0.836 m <sup>2</sup>	1 m <sup>2</sup> = 1.200 yd <sup>2</sup>
	perch (p)	square metre (m <sup>2</sup> )	1 p = 25.3 m <sup>2</sup>	1 m <sup>2</sup> = 0.0395 p
	rood (rd)	hectare (ha)	1 rd = 0.101 ha	1 ha = 9.88 rd
	acre (ac)	hectare (ha)	1 ac = 0.405 ha	1 ha = 2.47 ac
square mile	square kilometre (km <sup>2</sup> )	1 square mile = 2.59 km <sup>2</sup>	1 km <sup>2</sup> = 0.386 square mile	
Volume	cubic inch (in <sup>3</sup> )	cubic centimetre (cm <sup>3</sup> )	1 in <sup>3</sup> = 16.4 cm <sup>3</sup>	1 cm <sup>3</sup> = 0.0610 in <sup>3</sup>
	cubic foot (ft <sup>3</sup> )	cubic metre (m <sup>3</sup> )	1 ft <sup>3</sup> = 0.0283 m <sup>3</sup>	1 m <sup>3</sup> = 35.3 ft <sup>3</sup>
	cubic yard (yd <sup>3</sup> )	cubic metre (m <sup>3</sup> )	1 yd <sup>3</sup> = 0.765 m <sup>3</sup>	1 m <sup>3</sup> = 1.31 yd <sup>3</sup>
	bushel (bus)	cubic metre (m <sup>3</sup> )	1 bus = 0.0364 m <sup>3</sup>	1 m <sup>3</sup> = 27.5 bus
Volume (fluids)	fluid ounce (fl oz)	millilitre (ml)	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 metre (m <sup>3</sup> )	1 gal = 4.55 litre	1 m <sup>3</sup> = 220 gal
	acre foot	cubic metre (m <sup>3</sup> ) or megalitre (MI)	1 acre foot = 1230 m <sup>3</sup> = 1.23 MI	1 MI = 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)	1 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 <sup>2</sup> ) (for meteorology)	megapascal (MPa)	1 ton/in <sup>2</sup> = 15.4 MPa	1 MPa = 0.647 ton/in <sup>2</sup>
	inch of mercury (inHg)	millibar (mb)	1 inHg = 33.9 mb 1 mb = 100 Pa	1 mb = 0.0295 inHg
Velocity	mile per hour (mph) (for navigation)	kilometre per hour (km/h) knot (kn)	1 mph = 1.61 km/h 1 kn = 1.85 km/h	1 km/h = 0.621 mph
	degree Fahrenheit (°F)	degree Celsius (°C)	$^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$	$^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32$
Density	pound per cubic inch (lb/in <sup>3</sup> )	gram per cubic centimetre (g/cm <sup>3</sup> )	1 lb/in <sup>3</sup> = 27.7 g/cm <sup>3</sup>	1 g/cm <sup>3</sup> = 0.0361 lb/in <sup>3</sup>
	ton per cubic yard	= tonne per cubic metre (t/m <sup>3</sup> ) tonne per cubic metre (t/m <sup>3</sup> )	1 lb/in <sup>3</sup> = 27.7 t/m <sup>3</sup> 1 ton/yd <sup>3</sup> = 1.33 t/m <sup>3</sup>	1 t/m <sup>3</sup> = 0.0361 lb/in <sup>3</sup> 1 t/m <sup>3</sup> = 0.752 ton/yd <sup>3</sup>
Energy	British thermal unit (Btu) therm (for electrical energy)	kilojoule (kJ) megojoule (Mj) kilowatt hour (kWh)	1 Btu = 1.06 kJ 1 therm = 106 Mj 1 kWh = 3.60 Mj	1 kJ = 0.948 Btu 1 Mj = 9.48 = 10 <sup>3</sup> therm
	Power	horsepower (hp)	kilowatt (kW)	1 hp = 0.746 kW 1 kW = 1.34 hp
Time		second (s)		
		minute (min)	1 min = 60 s	
		hour (h)	1 h = 3600 s	
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) revolution per minute (rpm)	1 rpm = 0.105 rad/s	1 rad/s = 9.55 rpm