

Engineering Information

Weight & Measures Guide

This table gives a comprehensive list of Imperial Measures Convert to Metric Measures.

Weights & Measures Guide

Imperial Measures	Metric Measures	Miscellaneous Units & Ratios																																																																
Length																																																																		
12 inches = 1 foot	10 millimetres = 1 cm	USA Dry Measure Equivalents																																																																
3 feet = 1 yard	100 millimetres = 1 decimetre	1 pint = 0.9689 UK pt = 0.5506 litre																																																																
5.5 yards = 1 rod, pole	10 centimetres = 1 decimetre	1 bushel = 0.9689 UK bu = 35.238 litres																																																																
4 rods = 1 chain	1000 millimetres = 1 metre	USA Liquid Measure Equivalents																																																																
10 chains = 1 furlong	100 centimetres = 1 metre	1 fluid ounce = 1.0408 UK fl oz = 0.0296 litre																																																																
5,280 feet = 1 mile	10 decimetres = 1 metre	1 pint (15 oz) = 0.8327 UK pt = 0.4732 litre																																																																
1760 yards = 1 mile nautical	100 metres = 1 hectometre	1 gallon = 0.8327 UK gal = 3.7853 litres																																																																
6 feet = 1 fathom	1000 metres = 1 kilometre																																																																	
100 fathoms = 1 cable length	1000 kilometres = 1 megametre																																																																	
6080 feet = 1 nautical mile	1852 metres = 1 int. nautical mile																																																																	
		International Clothing / Shoe Sizes																																																																
		Men's Suits																																																																
		UK/USA (ins) 36 37 38 39 40 41 42 43 44 45																																																																
		Europe (size) 46 48 50 52 54 56 58																																																																
		Europe (cms) 92 96 100 104 108 112 116																																																																
		Women's Clothes																																																																
		UK (size) 8 10 12 14 16 18 20																																																																
		Germany (size) 34 36 38 40 42 44 46																																																																
		France (size) 34 36 38 40 42 44 46																																																																
		Italy (size) 38 40 42 44 46 48 50																																																																
		USA (size) 8 10 12 14 16 18 20																																																																
		Men's Shoe Sizes																																																																
		UK 7 7½ 8 8½ 9 9½ 10																																																																
		USA 7½ 8 8½ 9 9½ 10 10½																																																																
		Europe 40½ 41 42 42½ 43 43½ 44																																																																
		Women's Shoe Sizes																																																																
		UK 3½ 4 4½ 5 5½ 6 6½ 7 7½																																																																
		USA 5 5½ 6 6½ 7 7½ 8 8½ 9																																																																
		Europe 35½ 36½ 37 37½ 38 39 39½ 40½ 41																																																																
		TEMPERATURE CONVERSION																																																																
		Fahrenheit to Centigrade / Celsius																																																																
		Degrees Celsius (Centigrade) converted to Degrees Fahrenheit: $F = 9/5C + 32$																																																																
		Degrees Fahrenheit converted to Degrees Celsius (Centigrade): $C = 5/9(F - 32)$																																																																
		<table border="1"> <thead> <tr> <th>°C</th> <th>°F</th> <th>°C</th> <th>°F</th> <th>°F</th> <th>°C</th> <th>°F</th> <th>°C</th> </tr> </thead> <tbody> <tr> <td>-10</td> <td>= 14</td> <td>60</td> <td>= 140</td> <td>-10</td> <td>= -23</td> <td>60</td> <td>= 16</td> </tr> <tr> <td>0</td> <td>= 32</td> <td>70</td> <td>= 158</td> <td>0</td> <td>= -18</td> <td>70</td> <td>= 21</td> </tr> <tr> <td>10</td> <td>= 50</td> <td>80</td> <td>= 176</td> <td>10</td> <td>= -12</td> <td>80</td> <td>= 27</td> </tr> <tr> <td>20</td> <td>= 68</td> <td>90</td> <td>= 194</td> <td>20</td> <td>= -7</td> <td>90</td> <td>= 32</td> </tr> <tr> <td>30</td> <td>= 86</td> <td>100</td> <td>= 212</td> <td>30</td> <td>= -1</td> <td>100</td> <td>= 38</td> </tr> <tr> <td>40</td> <td>= 104</td> <td>150</td> <td>= 302</td> <td>40</td> <td>= 4</td> <td>150</td> <td>= 66</td> </tr> <tr> <td>50</td> <td>= 122</td> <td>200</td> <td>= 392</td> <td>50</td> <td>= 10</td> <td>200</td> <td>= 93</td> </tr> </tbody> </table>	°C	°F	°C	°F	°F	°C	°F	°C	-10	= 14	60	= 140	-10	= -23	60	= 16	0	= 32	70	= 158	0	= -18	70	= 21	10	= 50	80	= 176	10	= -12	80	= 27	20	= 68	90	= 194	20	= -7	90	= 32	30	= 86	100	= 212	30	= -1	100	= 38	40	= 104	150	= 302	40	= 4	150	= 66	50	= 122	200	= 392	50	= 10	200	= 93
°C	°F	°C	°F	°F	°C	°F	°C																																																											
-10	= 14	60	= 140	-10	= -23	60	= 16																																																											
0	= 32	70	= 158	0	= -18	70	= 21																																																											
10	= 50	80	= 176	10	= -12	80	= 27																																																											
20	= 68	90	= 194	20	= -7	90	= 32																																																											
30	= 86	100	= 212	30	= -1	100	= 38																																																											
40	= 104	150	= 302	40	= 4	150	= 66																																																											
50	= 122	200	= 392	50	= 10	200	= 93																																																											
Area	Area																																																																	
144 sq inches = 1 sq foot	100 sq mm = 1 sq cm																																																																	
9 sq feet = 1 sq yard	100 sq cm = 1 sq decimetre																																																																	
30.25 sq. yards = 1 sq rod, pole	100 sq decimetres = 1 sq metre																																																																	
40 sq rods = 1 rood	100 sq metres = 1 are																																																																	
4,840 sq. yards = 1 acre	10 ares = 1 dekaare																																																																	
640 acres = 1 sq mile	10 dekaares = 1 hectare																																																																	
Weight (avoirdupuis)	Weight (mass)																																																																	
4,37.5 grains = 1 ounce	1000 nanograms = 1 microgram																																																																	
16 drams = 1 ounce	1000 micrograms = 1 milligram																																																																	
16 ounces = 1 pound	1000 milligrams = 1 gram																																																																	
14 pounds = 1 stone	10 grams = 1 dekagram																																																																	
28 pounds = 1 quarter	10 dekagrams = 1 hectogram																																																																	
100 lb = 1 short cwt	1000 grams = 1 kilogram																																																																	
112 lb = 1 long cwt	100 kilograms = 1 quintal																																																																	
Volume	Volume																																																																	
1728 cu inches = 1 cu foot	1000 cu mm = 1 cu cm																																																																	
27 cu feet = 1 cu yard shipping	1000 cu cm = 1 cu decimetre																																																																	
1 register ton = 100 cu feet	1000 cu decimetres = 1 cu metre																																																																	
	1000 cu metres = 1 cu dekametre																																																																	
	1000 cu dekametres = 1 cu hectometre																																																																	
	1000 cu hectometres = 1 cu kilometre																																																																	
Capacity	Capacity																																																																	
8 fluid drachms = 1 fluid ounce	10 millimetres = 1 centilitre																																																																	
5 fluid ounces = 1 gill	10 centilitres = 1 decilitre																																																																	
4 gills = 1 pint	10 decilitres = 1 litre																																																																	
1 quart = 2 pints	1 litre = 1 cu decimetre																																																																	
8 pints = 1 gallon	10 litres = 1 dekalitre																																																																	
4 quarts = 1 gallon	100 litres = 1 hectolitre																																																																	
2 gallons = 1 peck	1000 litres = 1 kilolitre																																																																	
4 pecks = 1 bushel	10 hectolitres = 1 kilolitre																																																																	
8 bushels = 1 quarter	1 kilolitre = 1 cu metre																																																																	