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CONVERSION TABLES

Guage to Imperial to Metric

Guage	Inch	Metric
10	0.102	2.586
11	0.090	2.304
12	0.080	2.052
13	0.072	1.826
14	0.064	1.626
15	0.057	1.448
16	0.050	1.290
17	0.045	1.148
18	0.040	1.024
19	0.036	0.912
20	0.032	0.813
21	0.029	0.724
22	0.025	0.643
23	0.023	0.574
24	0.020	0.511
25	0.018	0.455
26	0.016	0.404

Pressure

Bar	Kpa	Psi
1	100	14.5

Area of plane shapes

Circle = $\frac{3.14 \times \text{diameter}^2}{4}$

Rectangle = side A x side B

Triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

Circumference of a circle

= $3.14 \times \text{diameter}$



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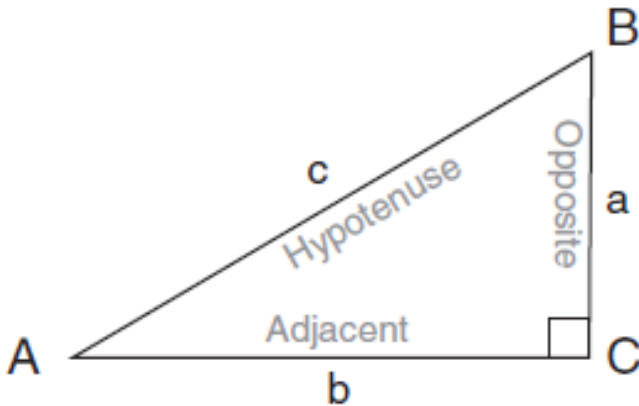
IMPERIAL			
Length	Area	Capacity	Weight
1 miles = 1760 yards 1 yard = 3 feet 1 foot = 12 inches	1 sq. mile = 644 acres 1 acre = 4840 sq. yard 1 sq. yard = 9 sq. feet 1 sq. foot = 144 sq. inches	1 gal. = 4 quarts 1 quart = 2 pints 1 pint = 34.677 inches ³ 1 US gal. = 0.8327 gal 1 yard ³ = 27 feet ³	1 ton = 2240 lb. 1 ton = 1.12 US ton 1 stone = 14lb 1lb – 16oz

METRIC			
Length	Area	Capacity	Weight
1 km = 1000m 1m = 100cm 1cm = 10mm	1 km ² = 100 hectares 1 hectare = 100 acres 1 acre = 100m ²	1 m ³ = 1000 litres 1 litre = 1000 cc 1 ml = 1 cc	1 tonne = 1000kg 1 kg = 1000g 1 g = 1000mg

IMPERIAL TO METRIC			
Length	Area	Capacity	Weight
1 mile = 1.609 km 1 yard = 0.9144m 1 foot = 0.3048m 1 inch = 25.4mm	1 sq. mile = 2.59km ² 1 acre = 0.4047 hectares 1 acre = 4046.86m ² 1 sq. yard = 0.8361m ² 1 sq. foot = 0.0929 m ² 1 sq. inch = 645.16mm ²	1 gallon = 4.561 litres 1 US gallon = 3.785 litres 1 pint = 0.5683 litres 1 cu. Inch = 16.3871 cm ³	1 ton = 1.016 tonnes 1lb = 0.4536kg 1oz = 28.3495g 1 US ton = 0.9072 tonnes

TEMPERATURE			
From	To Fahrenheit	To Celsius	To Kelvin
Fahrenheit (F)	F	(F-32) x 5/9	(F-32) x 5/9 + 273.15
Celsius (C or °)	(C x 9/5) + 32	C	C + 273.15
Kelvin (K)	(K – 273.25) x 9/5 + 32	K-273.15	K

Trigonometry

TRIGONOMETRY		
		
<i>To find a side using an angle and one side</i>		
$\sin A = \frac{\text{Opposite}}{\text{Hypotenuse}}$	$\cos A = \frac{\text{Adjacent}}{\text{Hypotenuse}}$	$\tan A = \frac{\text{Opposite}}{\text{Adjacent}}$
<i>To find an angle two sides</i>		
$\sin^{-1} \frac{\text{Opposite}}{\text{Hypotenuse}} = A^\circ$	$\cos^{-1} \frac{\text{Adjacent}}{\text{Hypotenuse}} = A^\circ$	$\tan^{-1} \frac{\text{Opposite}}{\text{Adjacent}} = A^\circ$
PYTHAGORAS		
$c^2 = a^2 + b^2$		