



CONVERSION TABLES

GENERAL CONVERSION FORMULAE		
From	To	Multiply by
inches	millimetres	25.4
millimetres	inches	0.0394
inches	centimetres	2.54
centimetres	inches	0.3937
feet	metres	0.3048
metres	feet	3.281
yards	metres	0.9144
metres	yards	1.094
miles	kilometres	1.609
kilometres	miles	0.6214
sq inches	sq centimetres	6.452
sq centimetres	sq inches	0.155
sq metres	sq feet	10.76
sq feet	sq metres	0.0929
sq yards	sq metres	0.8361
sq metres	sq yards	1.196
sq miles	sq kilometres	2.589
sq kilometres	sq miles	0.3861
acres	hectares	0.4047
hectares	acres	2.471
cu inches	cu centimetres	16.39
cu centimetres	cu inches	0.06102
cu feet	cu metres	0.02832
cu metres	cu feet	35.315
cu yards	cu metres	0.7646

cu metres	cu yards	1.308
cu inches	litres	0.01639
litres	cu inches	61.03
pints	litres	0.5682
litres	pints	1.76
US pints	litres	0.47311
litres	US pints	2.114
US gallon	liters	3.785
gallons	litres	4.546
litres	US gallons	0.2642
litres	gallons	0.22
grains	grams	0.0648
grams	grains	15.43
ounces	grams	28.35
grams	ounces	0.03527
pounds	grams	453.6
grams	pounds	0.002205
pounds	kilograms	0.4536
kilograms	pounds	2.205
tons	kilograms	1016.05
kilograms	tons	0.0009842

VOLUME		
From	To	Multiply by
cu inches	cu centimetres	16.39
cu centimetres	cu inches	0.06102
cu inches:	cu decimetres	16.387
cu feet	cu metres	0.02832
cu metres	cu feet	35.315
cu feet	cu inches	1,728
cu feet	cu decimetres	28.316
cu yards	cu metres	0.7646
cu metres	cu yards	1.308

cu inches	litres	0.01639
litres	cu inches	61.03

1 cubic metre = 1,000,000 cu. cm

LINEAR MEASURE		
From	To	Multiply by
inches	millimetres	25.4
millimetres	inches	0.0394
inches	centimetres	2.54
centimetres	inches	0.3937
feet	metres	0.3048
metres	feet	3.281
yards	metres	0.9144
metres	yards	1.094
miles	kilometres	1.609
kilometres	miles	0.6214
nautical miles	kilometres	1.852
nautical miles	miles	1.150779

1 centimetre = 10 mm

1 decimetre = 10 cm

1 metre = 100 cm

1 kilometre = 1,000 m

1 foot = 12 inches

1 yard = 3 feet

1 (statute) mile = 1,760 yards

1 int. nautical mile = 1.150779 miles

AREA		
From	To	Multiply by
sq inches	sq millimetres	645.16
sq millimetres	sq inches	0.001550
sq inches	sq centimetres	6.452
sq centimetres	sq inches	0.155
sq feet	sq centimetres	929.03
sq centimetres	sq feet	0.001076
sq metres	sq feet	10.76
sq feet	sq metres	0.0929
sq yards	sq metres	0.8361
sq metres	sq yards	1.196
sq miles	sq kilometres	2.5899
sq miles	hectares	0.25899
hectares	sq miles	3.8612
sq kilometres	sq miles	0.3861
acres	sq metres	4046.86
sq metres	acres	0.000247
acres	hectares	0.4047
hectares	acres	2.471

1 square foot = 144 sq. in.

1 square yard = 9 sq. ft

1 acre = 4,840 sq. yd

1 square mile = 640 acres

1 square metre = 10,000 sq. cm
 1 acre = 119.6 sq. yards
 1 acre = 4047 square metres
 1 hectare = 10 000 sq metre = 2.471 acres
 1 square kilometre = 100 hectares

CAPACITY		
From	To	Multiply by
fluid ounce	litres	0.0284
fluid ounce	cu inches	1.8047
US fluid ounce	litres	0.0296
US fluid ounce	cu inches	1.878
gills	litres	0.1421
pint	cu inches	34.68
pints	litres	0.568
litres	pints	1.7606
US pints	liters	0.4731
liters	US pints	2.114
US pints	cu inches	28.88
cu inches	US pints	0.0347
quarts	litres	1.136
US quarts	liters	0.9463
gallons	litres	4.546
US gallons	litres	3.785
peck	litres	9.092
bushel	liters	36.4
US barrels	cubic metres	0.159

1 US pint = 16 fluid oz
 1 gill = 5 fluid oz
 1 pint = 20 fluid oz
 1 quart = 2 pints
 1 gallon = 4 quarts

1 peck = 2 gallons
 1 bushel = 4 pecks

1 centilitre = 10 ml = 0.018 pint
 1 decilitre = 10 cl = 0.176 pint
 1 litre = 1000 ml = 1.76 pints
 1 litre = 1 cubic decimetres
 1 decalitre = 10 l = 2.20 gallons
 1 hectolitre = 100 l = 2.75 bushels
 1 kilolitre = 1,000 l = 3.44 quarters

MASS and WEIGHT - Commonly used values		
From	To	Multiply by
grams	grains	15.43
grains	grams	0.0648
ounces	grams	28.349
grams	ounces	0.03527
pounds	grams	453.59
grams	pounds	0.002205
pounds	kilograms	0.45359
kilograms	pounds	2.205
tons	kilograms	1016.05
kilograms	tons	0.0009842
tons	tonnes	1.016
tonnes	tons	0.9842

stones: kilograms = 6.350
 quarters: kilograms = 12.700
 centals: kilograms = 45.359
 hundredweights: kilograms = 50.802

1 milligram = 0.015 grain
 1 centigram = 10 mg = 0.154 grain
 1 decigram = 100 mg = 1.543 grains
 1 gram = 1000 mg = 15.43 grains
 1 decagram = 10 g = 5.64 drams
 1 hectogram = 100 g = 3.527 ounces
 1 kilogram = 1,000 g = 2.205 pounds
 1 tonne (metric ton) = 0.9842 (long) ton = 1,000 kg

Force		
From	To	Multiply by
kilonewtons	pounds (f)	224.8
pounds (f)	kilonewtons	0.004448
kilonewtons	tons (f)	0.10036
tons (f)	kilonewtons	9.96401
kilonewtons	kilograms (f)	102.0
kilograms (f)	kilonewtons	0.009807

Fuel consumption		
From	To	Multiply by
miles/gallon	kilometres/litre	0.3539
kilometres/litre	miles/gallon	2.825
miles/US gallon	kilometers/liter	0.4250
kilometers/liter	miles/US gallon	2.353
gallons/mile	litres/ kilometre	2.825
litres/ kilometre	gallons/mile	0.3540

American Dry Measurements		
From	To	Multiply by
pint	cu. in.	33.60
pint	liter	0.550
quart	liters	1.101
peck (8 quarts)	liters	8.81
bushel (4 pecks)	liters	35.3

American to Imperial Capacity measurements		
From	To	Multiply by
US fluid ounce	fluid ounce	1.0408
fluid ounce	US fluid ounce	0.9608
US pint	pint	0.8327

pint	US pint	1.201
US gallon	gallon	0.8327
gallon	US gallon	1.201

Velocity		
From	To	Multiply by
miles/hour	kilometres/hour	1.609
kilometres/ hour	miles/hour	0.6117
feet/second	metres/second	0.305
metres/second	feet/second	3.279
feet/minute	metres/second	0.00508
metres/ second	feet/minute	196.74
feet/minute	metres/minute	0.305

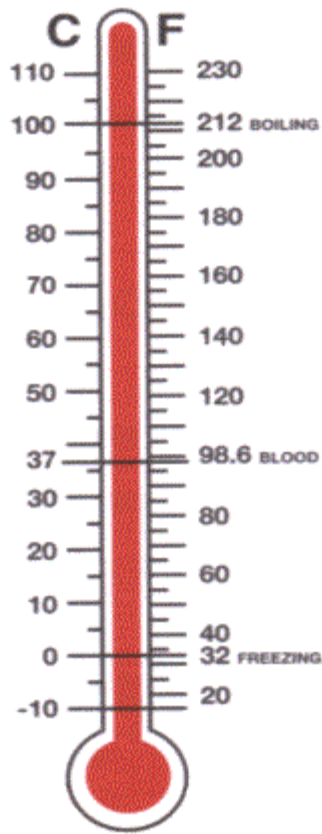
Pressure		
From	To	Multiply by
pounds/in ²	kilonewtons/m ²	6.895
pounds/in ²	Atmosphere	0.0680
pounds/in ²	Kilograms/m ²	9.80665
Pascal	pounds/in ²	14.696
Pascal	feet/second	3.279
Pascal	Kilograms/m ²	703.07
Kilograms/m ²	pounds/in ²	0.001422
Kilograms/m ²	Atmosphere	9.68X10 ⁻⁵
Kilograms/m ²	Pascal	9.8067

Atmosphere	pounds/in ²	14.696
Atmosphere	Pascal	101,325
Atmosphere	Kilograms/m ²	10,332
newton/m ²	pascal	1.000
kilopascal	kilonewton/m ²	1.000

Torque		
From	To	Multiply by
Newton Metres	Foot Pound	0.7376
Newton Metres	Kilogram Force Metres	0.1020
Foot Pounds	Newton Metres	1.356
Foot Pounds	Kilogram Force Metres	0.1383
Kilogram Force Metres	Foot Pound	7.233
Kilogram Force Metres	Newton Metres	9.807
Inch Pound	Foot Pound	12

Temperature Conversion
F to C first deduct 32, Multiply by 5 then Divide by 9
C to F Multiply by 9, Divide by 5, Add 32

Thermometer Comparisons



Power

Horsepower - 745.7 Watts (SI) or 735.5 Watts (Continental Europe)

