

Length

centimetres	÷ 30.48*	→ feet
centimetres	÷ 2.54*	→ inches
centimetres	÷ 91.44*	→ yards
feet	× 30.48*	→ centimetres
feet	× 0.3048*	→ metres
inches	× 2.54*	→ centimetres
inches	× 25.4*	→ millimetres
inches	× 0.0254*	→ metres
kilometres	÷ 1.609	→ miles
kilometres	× 1094	→ yards
metres	÷ 0.3048*	→ feet
metres	÷ 0.0254*	→ inches
metres	÷ 1609	→ miles
metres	÷ 0.9144*	→ yards
miles	× 1.609	→ kilometres
miles	× 1609	→ metres
millimetres	÷ 25.4*	→ inches
yards	× 91.44*	→ centimetres
yards	÷ 1094	→ kilometres
yards	× 0.9144*	→ metres

Area

acres	÷ 2.471	→ hectares
acres	÷ 247.1	→ sq.km
acres	× 4047	→ sq.metres
hectares	× 2.471	→ acres
hectares	÷ 259	→ sq.miles
hectares	× 11960	→ sq.yards
sq.cm	÷ 6.452	→ sq.inches
sq.feet	÷ 10.76	→ sq.metres
sq.inches	× 6.452	→ sq.cm
sq.inches	÷ 1550	→ sq.metres
sq.km	× 247.1	→ acres
sq.km	÷ 2.59	→ sq.miles
sq.metres	÷ 4047	→ acres
sq.metres	× 10.76	→ sq.feet
sq.metres	× 1550	→ sq.inches
sq.metres	× 1.196	→ sq.yards
sq.miles	× 259	→ hectares
sq.miles	× 2.59	→ sq.km
sq.yards	÷ 11960	→ hectares
sq.yards	÷ 1.196	→ sq.metres

The Pocket Guide to Converting Measurements

A handy list of what is needed to change units in one system of measures into those of another system.

To use: The unit named on the left, when x or ÷ by the number in the middle, gives the equivalent value for the unit named on the right.

* means the conversion is **exact**. All others are approximations.

Caution. While every care has been taken in the compilation of this document, no guarantee is given, or implied, as to its accuracy.

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To make: print (or copy) this and the following page back to back on a single sheet of paper or light card.

As a check on alignment the positions of the two **M**'s should match (to within 2 mm. will do).

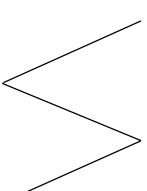
Cut around the marked outer rectangle.

Score along the two remaining lines. Crease and fold along these lines.

The dashed line should be a 'hill fold', that is the line is on the outside of the fold.

The plain lines should be a 'valley fold', that is the line is on the inside of the fold.

The whole thing, stood upright, and looked down should resemble a Z.



M

Volume (or capacity)

barrels (oil) $\div 6.29 \rightarrow$ cu.metres
barrels (oil) $\times 34.97 \rightarrow$ gallons(UK)
barrels (oil) $\times 42^* \rightarrow$ gallons(US)
barrels (oil) $\times 159 \rightarrow$ litres
centilitres $\div 1.639 \rightarrow$ cu.inches
centilitres $\div 56.83 \rightarrow$ pints (UK)
centilitres $\div 47.32 \rightarrow$ pints (US)
cu.feet $\div 35.31 \rightarrow$ cu.metres
cu.feet $\times 6.229 \rightarrow$ gallons(UK)
cu.feet $\times 7.481 \rightarrow$ gallons(US)
cu.feet $\times 28.32 \rightarrow$ litres
cu.inches $\times 1.639 \rightarrow$ centilitres
cu.inches $\div 61.02 \rightarrow$ litres
cu.inches $\times 16.39 \rightarrow$ millilitres
cu.metres $\times 6.29 \rightarrow$ barrels (oil)
cu.metres $\times 35.31 \rightarrow$ cu.feet
cu.metres $\times 220 \rightarrow$ gallons(UK)
cu.metres $\times 264.2 \rightarrow$ gallons(US)
fl.ounce(UK) $\times 28.41 \rightarrow$ millilitres
fl.ounce(UK) $\div 1.041 \rightarrow$ fl.ounces(US)
fl.ounce(US) $\times 29.57 \rightarrow$ millilitres
fl.ounce(US) $\times 1.041 \rightarrow$ fl.ounces(UK)
gallons (UK) $\div 34.97 \rightarrow$ barrels (oil)
gallons (UK) $\div 6.229 \rightarrow$ cu.feet
gallons (UK) $\div 220 \rightarrow$ cu.metres

Mass (or weight)

grams $\div 28.35 \rightarrow$ ounces
grams $\div 453.6 \rightarrow$ pounds
kilograms $\times 35.27 \rightarrow$ ounces
kilograms $\times 2.205 \rightarrow$ pounds
kilograms $\div 1016 \rightarrow$ tons, long
kilograms $\div 907.2 \rightarrow$ tons, short
ounces $\times 28.35 \rightarrow$ grams
ounces $\div 35.27 \rightarrow$ kilograms
pounds $\times 453.6 \rightarrow$ grams
pounds $\div 2.205 \rightarrow$ kilograms
pounds $\div 2205 \rightarrow$ tonnes
tonnes, metric $\times 2205 \rightarrow$ pounds
tonnes, metric $\div 1.016 \rightarrow$ tons, long
tonnes, metric $\div 0.9072 \rightarrow$ tons, short
tons, long $\times 1016 \rightarrow$ kilograms
tons, long $\times 1.016 \rightarrow$ tonnes
tons, short $\times 907.2 \rightarrow$ kilograms
tons, short $\times 0.9072 \rightarrow$ tonnes

gallons (UK) $\times 1.201 \rightarrow$ gallons(US)
gallons (UK) $\times 4.546 \rightarrow$ litres
gallons (US) $\div 42^* \rightarrow$ barrels (oil)
gallons (US) $\div 7.481 \rightarrow$ cu.feet
gallons (US) $\div 264.2 \rightarrow$ cu.metres
gallons (US) $\div 1.201 \rightarrow$ gallons(UK)
gallons (US) $\times 3.785 \rightarrow$ litres
litres $\div 159 \rightarrow$ barrels (oil)
litres $\times 61.02 \rightarrow$ cu.inches
litres $\div 28.32 \rightarrow$ cu.feet
litres $\div 4.546 \rightarrow$ gallons(UK)
litres $\div 3.785 \rightarrow$ gallons(US)
litres $\times 1.76 \rightarrow$ pints (UK)
litres $\times 2.113 \rightarrow$ pints (US)
millilitres $\div 16.39 \rightarrow$ cu.inches
millilitres $\div 28.41 \rightarrow$ fl.ounces(UK)
millilitres $\div 29.57 \rightarrow$ fl.ounces(US)
pints (UK) $\times 56.83 \rightarrow$ centilitres
pints (UK) $\div 1.76 \rightarrow$ litres
pints (UK) $\times 1.201 \rightarrow$ pints (US)
pints (US) $\times 47.32 \rightarrow$ centilitres
pints (US) $\div 2.113 \rightarrow$ litres
pints (US) $\div 1.201 \rightarrow$ pints (UK)

More units are covered with a set of on-screen calculators working to a greater accuracy at

www.ex.ac.uk/trol/scol/