

# CONVERSION FACTORS

## METRIC CONVERSION FACTORS

### Metric to English

kilograms $\times$ 2.2046	= pounds
kilograms $\div$ 907.2	= tons (2000 lbs.)
millimetres $\times$ 0.03937	= inches
or millimetres $\div$ 25.4	= inches
metres $\times$ 39.37	= inches
metres $\times$ 3.281	= feet
metres $\times$ 1.094	= yards
sq. millimetres $\times$ 0.00155	= sq. inches
or sq. millimetres $\div$ 645.16	= sq. inches

### English to Metric

pounds $\div$ 2.2046	= kilograms (kg)
tons (2000 lbs.) $\times$ 907.2	= kilograms (kg)
inches $\div$ 0.03937	= millimetres (mm)
or inches $\times$ 25.4	= millimetres (mm)
inches $\div$ 39.37	= metres (m)
feet $\div$ 3.281	= metres (m)
yards $\div$ 1.094	= metres (m)
sq. inches $\div$ 0.00155	= sq. millimetres (mm <sup>2</sup> )
or sq. inches $\times$ 645.16	= sq. millimetres (mm <sup>2</sup> )

## English and Metric Equivalents

### WEIGHTS

1 pound (1 lb.)	= 453.6 grams, or 0.4536 kilograms (kg)
1 lb. per foot (lb./ft.)	= 1.4882 kilograms per metre (kg/m)
1 net ton (2000 lbs.)	= 907.18 kilograms (kg)
1 gross ton (2240 lbs.)	= 1016 kilograms, or 1.0160 metric tons
1 ounce per sq. foot	= 305.15 grams, or 0.30515 kilograms per sq. metre (kg/m <sup>2</sup> )
1 kilogram (kg)	= 2.2046 lbs.
1 kilogram per metre	= 0.67197 lbs. per foot
	= 2204.6 lbs.
1 metric ton (1000 kg)	= 1.10231 net tons
	= 0.98421 gross ton

### MEASURES

1 inch (in.)	= 25.40 millimetres (mm)
1 sq. inch (in. <sup>2</sup> )	= 645.16 sq. millimetres
1 sq. foot (ft. <sup>2</sup> )	= 0.092903 sq. metre
1 millimetre (mm)	= 0.03937 inch
1 sq. millimetre (mm <sup>2</sup> )	= 0.00155 sq. inch
1 metre (m)	= 3.2808 feet
	= 1.09361 yards
1 sq. metre (m <sup>2</sup> )	= 10.7639 sq. feet
	= 1.196 sq. yards

### TEMPERATURE

Celsius (formerly called the centigrade scale)

tc = temperature (Celsius) in degrees

tf = temperature (fahrenheit) in degrees

$$tc = \frac{tf - 32}{1.8}$$