

Metric System of Measurements

Système de mesure métrique

METRIC TABLES

LINEAR	: One METRE (m) = 10 decimetre (dm) = 100 centimetre (cm) = 1000 millimetres (mm) 1000 metres = One kilometre (km)
SQUARE	: One SQUARE METRE (m ²) = 100 sq. decimetres (dm ²) = 10000 sq. centimetres (cm ²) = 1000 000 sq. millimetres (mm ²)
CUBIC	: One CUBIC METRE (m ³) = 1000 cu. decimetre (dm ³) = 1000 000 cu. centimetres (cm ³)
CAPACITY	: One LITRE (L) = 10 decilitres (dL) = 1000 millilitres (mL) 100 litres = One hectolitre (hL)
WEIGHT	: One KILOGRAM (kg) = 100 decagrams (dkg) = 1000 grams (g) 100 kilos = One metric cent (q) 1000 kilos = One ton (t)
PRESSURE	: KILO PER SQUARE CENTIMETRE (kg/cm ²) One kilo per sq. centimetre = One ATMOSPHERE (atm)
TEMPERATURE	: CENTIGRADE degree (°C) = CELCIUS degree (°C)

METRIC CONVERSION EQUIVALENTS

LINEAR

INCH to METRIC

1 inch = 25.400 millimetres
1 inch = 2.540 centimetres
1 foot = 304.800 millimetres
1 foot = 30.480 centimetres
1 foot = 0.3048 metres
1 yard = 91.4400 centimetres
1 yard = 0.9144 metres
1 mile = 1.609.35 metres
1 mile = 1.609 kilometres

METRIC to INCH

1 millimetre = .0393700 inches
1 centimetre = .393700 inches
1 metre = 39.3700 inches
1 metre = 3.2808 feet
1 metre = 1.0936 yards
1 kilometre = .62137 miles

AREA

SQ. INCH to METRIC

1 sq. inch = 645.16 sq. millimetres
1 sq. inch = 6.4516 sq. centimetres
1 sq. foot = 929.00 sq. centimetres
1 sq. foot = .0929 sq. metres
1 sq. yard = .836 sq. metres
1 sq. mile = 2.5889 sq. kilometres

METRIC to SQ. INCH

1 sq. millimetre = .00155 sq. inches
1 sq. centimetre = .1550 sq. inches
1 sq. metre = 10.7640 sq. feet
1 sq. metre = 1.196 sq. yard
1 sq. kilometre = .38614 sq. miles

CUBIC

CU. INCH to METRIC

1 cu. inch = 16.387 cu. centimetres
1 cu. foot = .02832 cu. metres
1 cu. yard = .765 cu. metres

METRIC to CU. INCH

1 cu. centimetre = .0610 cu. inches
1 cu. metre = 35.314 cu. feet
1 cu. metre = 1.308 cu. yards

CAPACITY

IMPERIAL to METRIC

1 fluid ounce = 28.413 millilitres
1 fluid ounce = 0.02841 litres
1 pint = 0.56826 litres
1 quart = 1.13652 litres
1 gallon = 4.546 litres

METRIC to IMPERIAL

1 millilitre = 0.035195 fluid oz.
1 centilitre = 0.35195 fluid oz.
1 decilitre = 3.5195 fluid oz.
1 litre = 0.88 quarts
1 hectolitre = 21.9969 gallons

WEIGHT

AVOIR DUPOIS to METRIC

1 grain = 64.7989 milligrams
1 ounce = 28.35 grams
1 pound = .4536 kilograms
1 short ton (2000 lbs.) = 907.200 kilograms
1 short ton (2000 lbs.) = 9.072 metric cents
1 short ton (2000 lbs.) = .9072 ton

METRIC to AVOIR DUPOIS

1 gram = 15.432 grains
1 dekogram = .353 ounces
1 kilogram = 2.2046 pounds
1 metric cent = 220.46 pounds
1 ton = 2204.6 pounds
1 ton = 1.102 short tons

PRESSURE

POUNDS/INCHES to METRIC

1 pound per square inch = .0703 kilogram per square centimetre
1 pound per square inch = .0703 atmosphere (metric)

METRIC to POUNDS/INCHES

1 kilogram/sq. centimetre = 14.223 pounds/sq. inch
1 kilogram/sq. centimetre = 1 atmosphere

TEMPERATURE

FAHRENHEIT to CELSIUS

$$(\text{ }^\circ\text{F minus } 32^\circ) \times .556 = \text{ }^\circ\text{Celsius}$$

CELSIUS to FAHRENHEIT

$$(1.8 \times \text{ }^\circ\text{C}) \text{ plus } 32^\circ = \text{ }^\circ\text{Fahrenheit}$$