

Imperial to Metric

Length

1 inch = 25.4 mm
1 foot = 304.8 mm
1 yard = 914.4 mm
1 mile = 1.609 km
1 international nautical mile = 1.853 km
1 league (land) = 4.828 km
1 league (nautical) = 5.556 km
1 astronomical unit = 149 597 871 km
1 light year = 9 454 254 955 488 km
1 parsec = 30 856 774 878 505 km

Area

1 square inch = 6.452 cm²
1 square foot = 929.0 cm²
1 square yard = 0.8361 m²
1 acre = 4047 m²
1 hectare = 10000 m²

Volume

1 cubic inch = 16.39 cm³
1 cubic foot = 0.02832 m³
1 cubic yard = 0.7646 m³

Fluid Volume

1 fluid ounce (US) = 29.57 mL
1 pint (US) = 0.4731 L
1 pint (UK) = 0.5683 L
1 gallon (UK) = 4.546 L
1 gallon (US) = 3.785 L
1 barrel (petroleum) = 159.0 L

Units

Weight

1 ounce = 28.35 g
1 pound = 0.4536 kg
1 metric tonne = 1000 kg
1 US short ton = 907.2 kg
1 stone = 6.350 kg

Temperature

Degrees Celsius = $\frac{5}{9}$ (degrees Fahrenheit - 32)

0 °F = -17.78 °C
32 °F = 0 °C
50 °F = 10 °C
70 °F = 21.11 °C
90 °F = 32.22 °C
110 °F = 43.33 °C

Degrees Celsius = degrees Kelvin - 273.15

273.15 K = 0 °C

Speed

1 mile/hour = 1.609 km/hr
Mach 1 = 1225 km/hr
1 knot = 1.852 km/hr
Speed of light (in air) = 299 792 km/s
Speed of sound (in air) = 1225 km/hr (Mach 1)

Energy

1 calorie (food) = 4.187 kJ
1 ton explosive = 4 184 000 kJ

Pressure

1 bar = 0.9869 atmospheres
1 pascal = 0.000 009 869 atmospheres
1 psi = 0.068 045 957 atmospheres
1 psi = 6.895 kilopascals

Metric Length to Length

10 mm = 1 cm
1000 mm = 1 m
100 cm = 1 m
1000 m = 1 km

Metric Area to Area

100 mm² = 1 cm²
10 000 cm² = 1 m²
1 000 000 m² = 1 km²

Metric Volume to Volume

1000mm³ = 1 cm³
1 000 000 cm³ = 1 m³
1 000 000 000 m³ = 1 km³

Cooking

1 metric cup = 250 mL
1 dash = 0.6161 mL
1 drop = 0.05134 mL
1 fifth = 757.1 mL
1 US liquid ounce = 29.57 mL
1 pinch = 0.3081 mL
1 quart (US) = 946.4 mL
1 shot = 29.57 mL
1 metric tablespoon = 15 mL
1 metric teaspoon = 5 mL