

Equivalence of some English and Metric Units

Underlined numbers are exact; others are rounded to the nearest numeral on the far right.

1 m = 1000 mm; 100 cm; 10 dm; 0.1 km; 0.01 hectometre; 0.001 km
1 km = 1000 m; 0.621 mi; 3281 ft
1 m = 39.37 in.; 3.281 ft; 1.094 yd; 0.000624 mi
1 cm = 10 mm; 0.394 in
1 in = 2.54 cm; 25.4 mm; 0.0833 ft; 0.02778 yd
1 ft = 0.3048 m; 12 in; 0.061 rods; 1/6 fathom; 0.0001894 mi
1 yd = 0.9144 m; 3 ft; 0.1818 rods; 0.0005682 mi
1 rod = 5.0292 m; 198 in; 16.5 ft; 5.5 yd
1 mi = 1609 m; 1.609 km; 5280 ft; 1760 yd; 320 rods
1 international nautical mile = .999 U.S. nautical mile; 1.151 mi; 1852 m

1 km² = 100 hectares; 247.1 acres; 0.386 mi²
1 hectare = 10,000 m²; 2.471 acres; 11,960 yd²
1 m² = 10.76 ft²; 1.196 yd²
1 mi² = 259 hectares; 2.59 km²; 640 acres
1 acre = 4048 m²; 0.405 hectare; 43,560 ft²; 4840 yd²
1 ft² = 929.0 cm²; 144 in²

1 litre = 1 dm³; 1000 cc; 61.02 in³; 1.057 liq quarts; 0.264 gallon
1 m³ = 1000 litres; 1.308 yd³; 35.32 ft³; 264.2 gallons
1 ft³ = 7.481 gal; 28.3 litres; 0.0283 m³; 0.0370 yd³
1 acre ft = 1233 m³; 43,560 ft³
1 U.S. liq ounce = 29.57 cm³; 1.805 in³
1 U.S. liq quart = 0.964 litre; 57.75 in³; 0.833 British quart
1 U.S. gallon = 3.785 litres; 231 in³; 0.833 British gal;

1 kg = 1000 g; 2.205 lb
1 g = 0.035 ounce; 15.43 grains
1 ton metric (megagram) = 1000 kg; 2205 lb; 1.102 net ton; 0.984 gross ton
1 lb avoird. = 453.6 g; 7000 grains; 16 oz; 1.215 lb troy
1 ounce (avoird.) = 437.5 grains; 28.35 g
1 ton, net = 0.907 metric ton; 2000 lb avoird.; 0.893 gross ton

Fahrenheit to Celsius : °C = (°F - 32) / 1.8

Celsius to Fahrenheit : °F = (°C × 1.8) + 32

mi = mile, yd = yard

lb = pound (pound is from the latin phrase *libra pondo*, "a pound by weight")

dkm = decametre (or dekametre) = 10 m

lb avoird. = avoirdupois pound