

CONVERSION UNITS

U.S. SYSTEM OF MEASUREMENT

Unit Symbols

inches in.
foot ft
yard yd
mile mi
ounce oz
pound..... lb
pint pt
quart qt
gallon..... gal

Length

1 ft = 12 in.
1 yd = 3 ft
1 rod = 16.5 ft
1 chain = 66 ft
1 mi = 5280 ft

Weight

1 oz = 16 drams
1 lb = 16 oz
1 ton = 2000 lb

other ... Water

1 gal \approx 8.345 lb
1 ft³ \approx 62.42 lb

Area

1 ft² = 144 in²
1 yd² = 9 ft²
1 acre = 43560 ft²
1 mi² = 640 acres
1 mi² = 1 section

Volume

1 ft³ = 1728 in³
1 yd³ = 27 ft³
1 pt = 2 cups
1 qt = 2 pt
1 gal = 4 qt
1 gal = 231 in³
1 ft³ \approx 7.48 gal

METRIC SYSTEM OF MEASUREMENT

Unit Symbols

meter .. m
gram ... g
liter L

Prefix Symbols

m milli (0.001)
c.....centi (0.01)
d..... deci (0.1)
da..... deka (10)
h..... hecto (100)
k..... kilo (1,000)
M..... mega (1,000,000)

Length

1 cm = 10 mm
1 m = 1,000 mm
1 m = 100 cm
1 m = 10 dm
1 dam = 10 m
1 hm = 100 m
1 km = 1,000 m

Weight (Mass)

1 g = 1,000 mg
1 g = 100 cg
1 kg = 1,000 g
1 Mg = 1,000,000 g
1 Mg = 1 metric ton

other ... Water

1 mL = 1 g
1 L = 1 kg

Area

1 cm² = 100 mm²
1 m² = 10,000 cm²
1 hm² = 10,000 m²
1 hm² = 1 hectare
1 km² = 1,000,000 m²
1 km² = 1,000 hectares

Volume

1 cm³ = 1,000 mm³
1 dm³ = 1,000 cm³
1 dm³ = 1 liter
1 m³ = 1,000,000 cm³
1 L = 1,000 mL
1 L = 100 cL
1 kL = 1,000 L
1 mL = 1 cm³
1 L = 1,000 cm³
1 m³ = 1,000 L

U.S. \leftrightarrow Metric

Length

1 in. = 2.54 cm
1 ft \approx 0.3048 m
1 mi \approx 1.609 km
1 cm \approx 0.394 in.
1 m \approx 39.370 in.
1 m \approx 3.281 ft
1 km \approx 0.621 mi

Weight

1 lb \approx 453.6 g
1 kg \approx 2.205 lb

Area

1 in² = 6.4516 cm²
1 m² \approx 10.76 ft²

Volume

1 in³ \approx 16.387 cm³
1 ft³ \approx 28.317 L
1 pt \approx 473.18 cm³
1 m³ \approx 35.315 ft³
1 L \approx 1.057 qt