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Common Unit of Measure Conversions

COMMON UNIT OF MEASURE CONVERSIONS

COMMONLY USED ABBREVIATIONS

(Abbreviations may stand for singular or plural usage)

cm = centimeter	cu. = cubic	ft. = foot	gl. = gallon (US)
gr. = gram	Imp. = Imperial	in. = inch	kg. = kilogram
km. = kilometer	l. = liter	lb. = pound	m. = meter
mi. = mile	oz. = ounce	qt. = quart	std. = standard
US = United States	yd. = yard		

LENGTH MEASURES

Common Usage

1 ft. = 12 in..
1 yd. = 3 ft.
1 rod = 5.5000 yd.
1 furlong = 40 rods
1 mile = 8 furlongs
1 mi. = 5,280 ft.
1 mi. = 1,760 yd.
1 fathom = 6 ft.
120 fathoms = 1 cable
1 league = 3 mi.
1 nautical mi. = 6076.11 ft.
1 hand = 5 in. (equestrian)

METRIC

1 in. = 2.54 cm.
1 ft. = 30.48 cm.
1 m. = 3.2808 ft.
1 m. = 39.37 in.
1 m. = 1.0936 yd.
1 rod = 5.029 m.
1 km = 1000 m.
1 km = 0.621 mi.

Reciprocal Value

1 in. = 0.0833 ft.
1 ft. = 0.3333 yd.
1 yd. = 0.1818 rods
1 rod = 0.0250 furlongs
1 furlong = 0.1250 mi.
1 ft. = 0.000189 mi.
1 yd. = 0.000568 mi.
1 ft. = 0.1667 fathom
1 cable = 0.00833 fathoms
1 mi. = 0.3333 leagues
1 ft. = 0.000165 nautical mi.
1 in. = 0.2000 hands

1 cm. = 0.3937 in.
1 cm. = 0.0328 ft.
1 ft. = 0.3048 m.
1 in. = 0.0254 m.
1 yd. = 0.9144 m.
1 m. = 0.1988 rod
1 m. = 0.001 km.
1 mi. = 1.6103 km.

SQUARE MEASURES

Common Usage

1 sq. ft. = 144 sq. in.
1 sq. yd. = 9 sq. ft.
1 sq. rod = 30.25 sq. yd.
1 sq. mi. = 640 acres

METRIC

1 sq. cm. = 0.1550 sq. in.
1 sq. ft. = 0.0929 sq. m.
1 sq. m. = 1.196 sq. yd.
1 hectare = 2.47 acres
1 sq. km. = 0.386 sq. mi.

Reciprocal Value

1 sq. in = 0.0069 sq. in.
1 sq. ft. = 0.1111 sq. yd.
1 sq. yd. = 0.0331 sq. rods
1 acre = 0.0016 sq. mi.

1 sq. in. = 6.452 sq. cm.
1 sq. m. = 10.7643 sq. ft.
1 sq. yd. = 0.8361 sq. m.
1 acre = 0.4049 hectares
1 sq. mi. = 2.59 sq. km.

CUBIC & VOLUME MEASURES

Common Usage

1 cu. ft. = 1,728 cu. in.
1 cu. yd. = 27 cu. ft.
1 cord (wood) = 128 cu. ft.
1 US std. gal. = 231 cu. in.

METRIC

1 cu. in. = 16.39 cu. cm.
1 cu. m. = 35.3357 cu. ft.
1 cu. m. = 1.308 cu. yd.

DRY MEASURES

1 qt. = 2 pints
1 peck = 8 qt.
1 bushel = 4 pecks

METRIC

1 qt. dry = 1.101 l.
1 peck = 8.810 l.
1 hectoliter = 2.8375 bushels

Reciprocal Value

1 cu. in. = 0.0005787 cu. ft.
1 cu. ft. = 0.0370 cu. yd.
1 cu. ft. = 0.0078 cord
1 cu. in. = 0.00016 US std. gal.

1 cu. cm. = 0.0610 cu. in.
1 cu. ft. = 0.0283 cu. m.
1 cu. yd. = 0.7646 cu. m.

1 pint = 0.5000 qt.
1 qt. = 0.1250 peck
1 peck = 0.2500 bushels

1 l. = 0.908 qt. dry
1 l. = 0.1135 peck
1 bushel = 0.3524 hectoliters

LIQUID MEASURES

1 pint = 2 cup

1 qt. = 2 pints

1 gl. = 4 qt.

1 gl. = 8 pints

1 barrel = 31.5 gl.

1 cup = 0.5000 pints

1 pints = 0.5000 qt.

1 qt. = 0.2500 gl.

1 pint = 0.125000 gl.

1 gl. = 0.0317 barrel

IMPERIAL & METRIC LIQUID MEASURE

1 US gl. = 0.833 Imp. gl.

1 Imp. gl. = 4.546 l.

1 l. = 0.264 US gl.

1 l. = 1.0567 qt. liquid

1 gl. = 3.7854 l.

1 Imp. gl. = 1.201 US gl.

1 l. = 0.2200 Imp. gl.

1 US gl. = 3.7879 l.

1 qt. liquid = 0.9463 l.

1 l. = 0.2642 gl.

WEIGHT MEASURES

Common Usage

1 lb. = 16 oz.

1 ton = 2000 lb.

Reciprocal Value

1 oz. = 0.0625 lb.

1 lb. = 0.0005 ton

METRIC

1 oz. = 28.35 gr.

1 kg = 1000 gm

1 lb. = 0.4536 kg.

1 metric ton = 0.9842 English ton

1 gr. = 0.03527 oz.

1 gr. = 0.001 kg.

1 kg. = 2.2046 lb.

1 English ton = 1.016 metric tons

TEMPERATURE

Celcius or Centigrade

1 degree Celcius (C)

$(9/5 \times C) + 32$

Fahrenheit

$= 5/9 \times (F - 32)$

$= 1 \text{ degree Fahrenheit (F)}$