

Select Units of Measure & Conversion Factors

LENGTH

Unit	Abbr. or Symbol	Conversion Factor, by Unit
mil		.001 inch
		.0254 millimeter
millimeter	mm	.001 meter
		.1 centimeter
		.03937 inch
		39.37 mil
centimeter	cm	.01 meter
		.3937 inch
		10. millimeter
		393.7 mil
inch	in or "	.0254 meter
		.08333 foot
		2.54 centimeter
		25.4 millimeter
		1000. mil
foot	ft or'	.3048 meter
		12. inch
		30.48 centimeter
		304.8 millimeter
yard	yd	.9144 meter
		3. foot
		36. inch
meter	m	.00062 mile
		.001 kilometer
		1.09361 yard
		3.2808 foot
		39.37 inch
		100. centimeter
kilometer	km	.62 mile
		1000. meter
		3280.83 foot
mile	mi	1.6093 kilometer
		1609.35 meter
		5280. foot

AREA

Unit	Abbr. or Symbol	Conversion Factor, by Unit
sq. centim	cm ²	.00010 sq. meter
		.00012 sq. yard
		.00107 sq. foot
		.155 sq. inch
sq. inch	in ²	.00064 sq. meter
		.00077 sq. yard
		.0069 sq. foot
		6.4516 sq. centimeter
sq. foot	ft ²	.0929 sq. meter
		.111 sq. yard
		144. sq. inch
		929.03 sq. centimeter
sq. yard	yd ²	.836 sq. meter
		9. sq. foot
		1296. sq. inch
sq. meter	m ²	1.196 sq. yard
		10.764 sq. foot
		1550. sq. inch

MASS & WEIGHT *

Unit	Abbr. or Symbol	Conversion Factor, by Unit
milligram	mg	.00056 dram
		.001 gram
		.01543 grain
		.1 centigram
centigram	cg	.00564 dram
		.01 gram
		.1543 grain
		10. milligram
grain	gr	.00229 ounce
		.03664 dram
		.0648 gram
		6.48 centigram
gram	g	64.8 milligram
		.03527 ounce
		.5643 dram
		15.432 grain
dram	dr	100. centigram
		1000. milligram
		.0039 pound
		.0625 ounce
ounce	oz	1.7721 gram
		27.344 grain
		177.21 centigram
		1772.1 milligram
		.0625 pound
		16. dram
		28.349 gram
		437.5 grain
		2835. centigram
		28350. milligram
pound	lb or #	.0005 short ton
		.45359 kilogram
		16. ounce
		256. dram
		453.59 gram
		7000. grain
kilogram	kg	.001 metric ton
		2.2046 pound
		35.2736 ounce
		564.378 dram
short ton		1000. gram
		.89286 long ton
		.90744 metric ton
		907.44 kilogram
metric ton	t	2000. pound
		.98421 long ton
		1.102 short ton
		1000. kilogram
long ton		2204.63 pound
		1.01604 metric ton
		1.12 short ton
		1016.04 kilogram
		2240. pound

* Avoirdupois weight measurements.
Conversion factors are different for Troy and Apothecaries' weight measurements.

We hope these tables help save you time and errors.

Use the Phonetics Tables to accurately communicate part numbers, the Decimal Factors table to representing large numbers, and the Units of Measure Tables for length, mass/weight, and area unit conversions.

Decimal Factors

Multiplication Factor	Prefix	Symbol
10 ¹⁸	exa	E
10 ¹⁵	peta	P
10 ¹²	tera	T
10 ⁹	giga	G
10 ⁶	mega	M
10 ³	kilo	k
10 ²	hecto	h
10 ¹	deca	da
10 ⁻¹	deci	d
10 ⁻²	centi	c
10 ⁻³	milli	m
10 ⁻⁶	micro	μ
10 ⁻⁹	nano	n
10 ⁻¹²	pico	p
10 ⁻¹⁵	femto	f
10 ⁻¹⁸	atto	a

Phoenetic Alphabet

Letter	Word	Letter	Word
A	Alpha	N	November
B	Bravo	O	Oscar
C	Charlie	P	Papa
D	Delta	Q	Quebec
E	Echo	R	Romeo
F	Foxtrot	S	Sierra
G	Golf	T	Tango
H	Hotel	U	Uniform
I	India	V	Victor
J	Juliet	W	Whiskey
K	Kilo	X	X-Ray
L	Lima	Y	Yankee
M	Mike	Z	Zulu

Number Phonetics

Letter	Word	Letter	Word
0	ZERO	5	FIYIV
1	WUN	6	SIX
2	TOO	7	SEVEN
3	THU REE	8	ATE
4	FOWER	9	NINER

Should you need Capacity or Volume Conversion Factors, or if you need Length, Weight, or Area in units not shown, call us!