

Metric Symbol	Metric Prefix	Power of Ten with Respect to Base	CNS Conversion
E	1 Exa BaseUnit =	10^{18} BaseUnit	
P	1 Peta BaseUnit =	10^{15} BaseUnit	0 0000
T	1 Tera BaseUnit =	10^{12} BaseUnit	1 0001
G	1 Giga BaseUnit =	10^9 BaseUnit	2 0010
M	1 Mega BaseUnit =	10^6 BaseUnit	3 0011
k	1 kilo BaseUnit =	10^3 BaseUnit	4 0100
h	1 hecto BaseUnit =	10^2 BaseUnit	5 0101
dk/da	1 deca BaseUnit =	10^1 BaseUnit	6 0110
	Base Unit (m, s, L, Hz, F, g, J, Pa, A, V, Ω ...)	$10^0 = 1$	7 0111
d	1 deci BaseUnit =	10^{-1} BaseUnit	8 1000
c	1 centi BaseUnit =	10^{-2} BaseUnit	9 1001
m	1 milli BaseUnit =	10^{-3} BaseUnit	10 A 1010
μ	1 micro BaseUnit =	10^{-6} BaseUnit	11 B 1011
n	1 nano BaseUnit =	10^{-9} BaseUnit	12 C 1100
p	1 pico BaseUnit =	10^{-12} BaseUnit	13 D 1101
f	1 femto BaseUnit =	10^{-15} BaseUnit	14 E 1110
a	1 atto BaseUnit =	10^{-18} BaseUnit	15 F 1111

Time

60 min = 1 h
60 s = 1 min
24 h = 1 day
365 day = 1 yr

Angles

π rad = 180°
 $1^\circ = 60$ min (60')
 $1' = 60$ s (60")

Temperature

$^\circ\text{C} = 5/9 (^\circ\text{F} - 32)$
 $\text{K} = ^\circ\text{C} + 273$
 $^\circ\text{F} = (9/5)^\circ\text{C} + 32$
 $\text{R} = ^\circ\text{F} + 460$

Imperial Conversion Units

Length

12 in = 1 ft
3 ft = 1 yd
5280 ft = 1 mi
1760 yd = 1 mi
1852 m = 1 nmi

Weight

16 oz = 1 lb
2000 lb = 1 ton

Capacity

3 tsp = 1 tbsp
1 fl. oz. = 2 tbsp
16 tbsp = 1 cup
2 cups = 1 US pt
2 US pt = 1 US qt
4 US qt = 1 US gal
1 cup = 8 fl. oz.

Metric – Imperial Conversion Units

Length

1 in = 2.54 cm
1 m = 39.37 in
1 mi = 1.609 km

Weight

1 lb = 453.6 g
1 kg = 2.205 lb
1 oz = 28.35 g

Capacity

1 US gal = 3.79 L
1 tsp = 4.93 mL
1 US pt = 0.473 L

Heat - Energy - Power Units

1 cal = 4.186 J
1 BTU = 1055 J
1 hp = 745.7 W

Area

1 hectare = 10000 m^2
1 acre = 4840 yd^2
1 hectare = 2.47 acres