

Metric Symbol	Metric Prefix	Power of Ten with Respect to <b>Base</b>
<b>E</b>	<b>1 Exa</b> <b>BaseUnit</b> =	$10^{18}$ <b>BaseUnit</b>
<b>P</b>	<b>1 Peta</b> <b>BaseUnit</b> =	$10^{15}$ <b>BaseUnit</b>
<b>T</b>	<b>1 Tera</b> <b>BaseUnit</b> =	$10^{12}$ <b>BaseUnit</b>
<b>G</b>	<b>1 Giga</b> <b>BaseUnit</b> =	$10^9$ <b>BaseUnit</b>
<b>M</b>	<b>1 Mega</b> <b>BaseUnit</b> =	$10^6$ <b>BaseUnit</b>
<b>k</b>	<b>1 kilo</b> <b>BaseUnit</b> =	$10^3$ <b>BaseUnit</b>
<b>h</b>	<b>1 hecto</b> <b>BaseUnit</b> =	$10^2$ <b>BaseUnit</b>
<b>dk/da</b>	<b>1 deca</b> <b>BaseUnit</b> =	$10^1$ <b>BaseUnit</b>
	<b>Base Unit (m, s, L, Hz, F, g, J, Pa, A, V, <math>\Omega</math>...)</b>	$10^0 = 1$
<b>d</b>	<b>1 deci</b> <b>BaseUnit</b> =	$10^{-1}$ <b>BaseUnit</b>
<b>c</b>	<b>1 centi</b> <b>BaseUnit</b> =	$10^{-2}$ <b>BaseUnit</b>
<b>m</b>	<b>1 milli</b> <b>BaseUnit</b> =	$10^{-3}$ <b>BaseUnit</b>
<b><math>\mu</math></b>	<b>1 micro</b> <b>BaseUnit</b> =	$10^{-6}$ <b>BaseUnit</b>
<b>n</b>	<b>1 nano</b> <b>BaseUnit</b> =	$10^{-9}$ <b>BaseUnit</b>
<b>p</b>	<b>1 pico</b> <b>BaseUnit</b> =	$10^{-12}$ <b>BaseUnit</b>
<b>f</b>	<b>1 femto</b> <b>BaseUnit</b> =	$10^{-15}$ <b>BaseUnit</b>
<b>a</b>	<b>1 atto</b> <b>BaseUnit</b> =	$10^{-18}$ <b>BaseUnit</b>

#### Time

60 min = 1 h

60 s = 1 min

24 h = 1 day

365 day = 1 yr

#### Angles

$\pi$  rad =  $180^\circ$

$1^\circ$  = 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  $\text{m}^2$

1 acre = 4840  $\text{yd}^2$

1 hectare = 2.47 acres