

The Prefixes

Bigger

deka (da)	× 10
hecto (h)	× 100
kilo (k)	× 1,000
mega (M)	× 1,000,000 [10 ⁶]
giga (G)	× 10 ⁹
tera (T)	× 10 ¹²
peta (P)	× 10 ¹⁵

Smaller

deci (d)	× 0.1
centi (c)	× 0.01
milli (m)	× 0.001
micro (μ)	× 0.000001 [10 ⁻⁶]
nano (n)	× 10 ⁻⁹
pico (p)	× 10 ⁻¹²
femto (f)	× 10 ⁻¹⁵

Most Commonly Used Units

Length

Basic Unit: meter (m)

1 *km* = 1,000 m

1 *cm* = .01 m

100 cm = 1 m

1 *mm* = .001 m

1,000 mm = 1 m

Mass

Basic Unit: gram (g)

1 *Mg* = 10⁶ g (also *metric ton*)

1 *kg* = 1,000 g

1 *mg* = .001 g

1000 mg = 1 g

Volume

Basic Unit: liter (L)

1 *kL* = 1,000 L (also *cubic meter*, m³)

1 *mL* = .001 L (also *cubic centimeter*, cm³)

1000 mL = 1 L