

## Metric Prefixes

Prefix	Symbol	Multiplication factor
exa-	E, X	1,000,000,000,000,000,000 = $10^{18}$
peta-	P	1,000,000,000,000,000 = $10^{15}$
tera- (trillion)	T	1,000,000,000,000 = $10^{12}$
giga- (billion)	G	1,000,000,000 = $10^9$
mega- (million)	M	1,000,000 = $10^6$
kilo (thousand)	k	1,000 = $10^3$
deca-	D	10 = $10^1$
deci-	d	0.1 = $10^{-1}$
centi-	c	0.01 = $10^{-2}$
milli- (thousandth)	m	0.001 = $10^{-3}$
micro- (millionth)	( $\mu$ )	0.000 001 = $10^{-6}$
nano- (billionth)	n	0.000 000 001 = $10^{-9}$
pico-	p	0.000 000 000 001 = $10^{-12}$

## Radiation

100 rem = 1 Sv = 1000 mSv = 100,000 mrem

50 rem = 0.5 Sv = 500 mSv = 50,000 mrem

10 rem = 0.1 Sv = 100 mSv = 10,000 mrem

5 rem = 0.05 Sv = 50 mSv = 5000 mrem

1 rem = 0.01 Sv = 10 mSv = 1000 mrem

0.5 rem = 0.005 Sv = 5 mSv = 500 mrem

0.1 rem = 0.001 Sv = 1 mSv = 100 mrem

To convert Sievert (Sv) to rem multiply by 100.

To convert mSv to rem, divide by 10.

1 centi Sv = 1 rem

1 rad = 1 rem if biological factor is 1.0.

1 Gy = 1 Sv if biological factor is 1.0

1 disintegration/second = becquerel

1 Curie (Ci) = 3.7 E10 disintegrations per second

1 Curie (Ci) = 37 Gigabecquerel (GBq) =

1 Curie (Ci) = 37.0E9 Bq = 3.7E10 Bq

1 picoCurie = 0.037 Bq

## Length

1 mile = 5280 ft = 1609 m = 1.609 km

## Mass

1 metric ton = 1000 kg

2000 lb = 1 ton = 907.2 kg

## Temperature

F = 9/5 C + 32

Kelvin = K = C + 273

Rankine = R = 9/5 C + 492 = F + 460