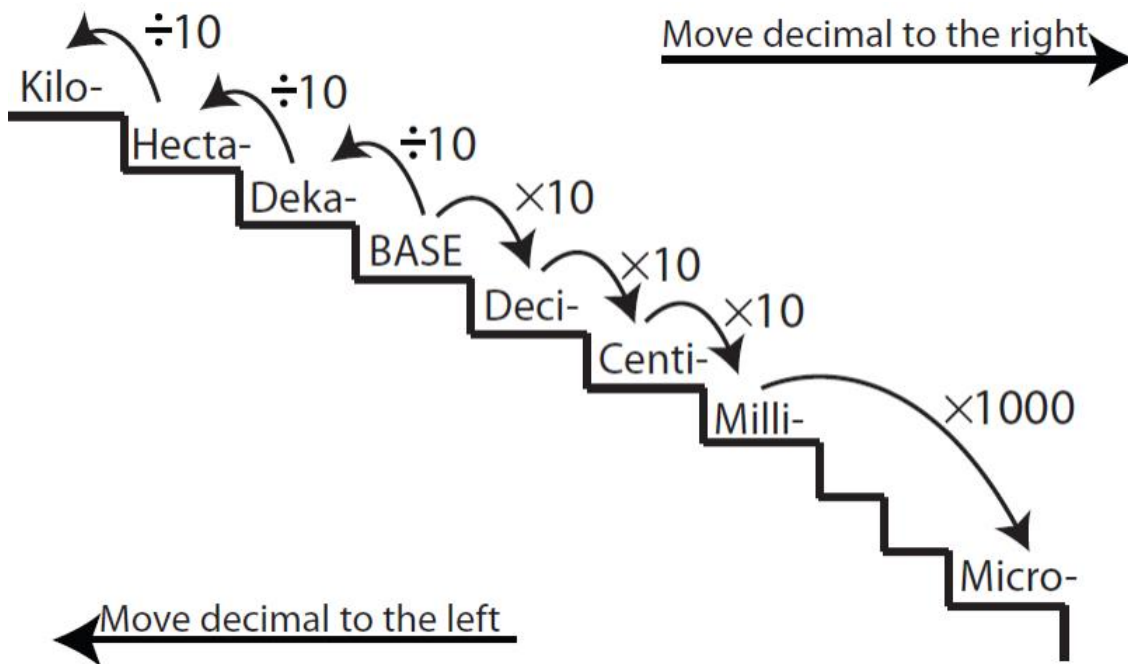


## Conversion Chart

### SI Unit Prefixes

### 1 Conversion Stairs



### Example

Convert 32900 centimetres to hectameters.

#### Solution:

Centimetres to hectametres moves to the left four times so we divide by 10 four times (or divide by  $10^4$ ).

$$\Rightarrow \frac{32900}{10^4}$$

$$\Rightarrow \frac{32900}{10000}$$

$$\Rightarrow 3.2900$$



## 2 Conversion Table

Prefix	Symbol	$1000^m$	$10^n$	Decimal
yotta	Y	$1000^8$	$10^{24}$	1 000 000 000 000 000 000 000 000
zetta	Z	$1000^7$	$10^{21}$	1 000 000 000 000 000 000 000
exa	E	$1000^6$	$10^{18}$	1 000 000 000 000 000 000
peta	P	$1000^5$	$10^{15}$	1 000 000 000 000 000
tera	T	$1000^4$	$10^{12}$	1 000 000 000 000
giga	G	$1000^3$	$10^9$	1 000 000 000
mega	M	$1000^2$	$10^6$	1 000 000
kilo	K	$1000^1$	$10^3$	1 000
hecto	h	$1000^{2/3}$	$10^2$	100
deca	da	$1000^{1/3}$	$10^1$	10
		$1000^0$	$10^0$	1
deci	d	$1000^{-1/3}$	$10^{-1}$	0.1
Centi	c	$1000^{-2/3}$	$10^{-2}$	0.01
Milli	m	$1000^{-1}$	$10^{-3}$	0.001
Micro		$1000^{-2}$	$10^{-6}$	0.000 001
Nano	n	$1000^{-3}$	$10^{-9}$	0.000 000 001
Pico	p	$1000^{-4}$	$10^{-12}$	0.000 000 000 001
Femto	f	$1000^{-5}$	$10^{-15}$	0.000 000 000 000 001
Atto	a	$1000^{-6}$	$10^{-18}$	0.000 000 000 000 000 001
zepto	z	$1000^{-7}$	$10^{-21}$	0.000 000 000 000 000 000 001
yocto	y	$1000^{-8}$	$10^{-24}$	0.000 000 000 000 000 000 000 001

### Example

Convert 0.719 kilolitres to litres.

#### Solution:

One litre is 1000 kilolitres so we multiply by  $10^3$ .

$$\Rightarrow 0.719 \times 10^3$$

$$\Rightarrow 0.719 \times 1000$$

$$\Rightarrow 719$$

