



Here is what you need to remember from this topic on Converting Units

Multiplying and dividing by powers of ten

Move the decimal point depending on the number of zeros

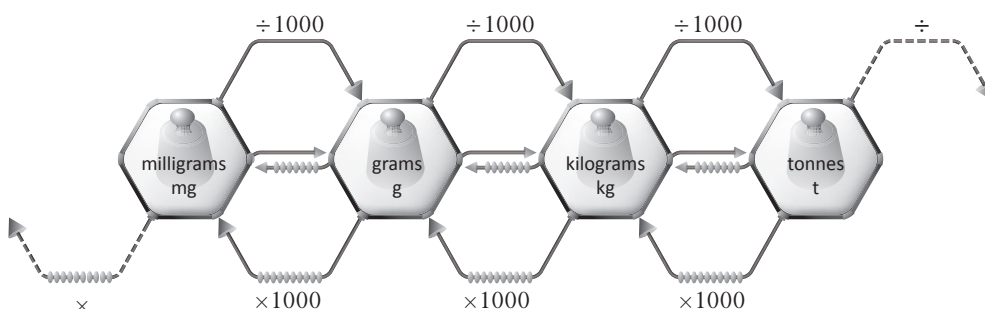
\times = move decimal point to the right , \div = move decimal point to the left

Prefixes

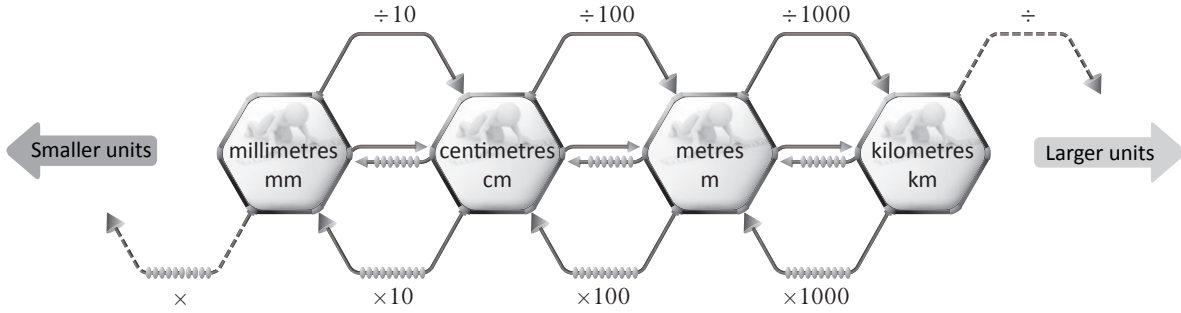
Prefixes let us write down very small or very large numbers quickly and easily. Each prefix tells us what to multiply the measured value by if we wanted to write it in the base units used.

PREFIX	SYMBOL	POWER OF 10 MULTIPLIER/DIVISOR	MULTIPLIER IN INDEX FORM
PREFIXES FOR LARGER VALUES			
tera	T	$\times 1\,000\,000\,000\,000$	$\times 10^{12}$
giga	G	$\times 1\,000\,000\,000$	$\times 10^9$
mega	M	$\times 1\,000\,000$	$\times 10^6$
kilo	k	$\times 1\,000$	$\times 10^3$
hecto	h	$\times 100$	$\times 10^2$
deca	da	$\times 10$	$\times 10^1$
MAIN ONES WE USE			
MULTIPLIER IN INDEX FORM			
			$\times \frac{1}{10^1}$
PREFIXES FOR SMALLER VALUES			
deci	d	$\div 10$	$\times \frac{1}{10^1}$
centi	c	$\div 100$	$\times \frac{1}{10^2}$
milli	m	$\div 1\,000$	$\times \frac{1}{10^3}$
micro	μ	$\div 1\,000\,000$	$\times \frac{1}{10^6}$
nano	n	$\div 1\,000\,000\,000$	$\times \frac{1}{10^9}$

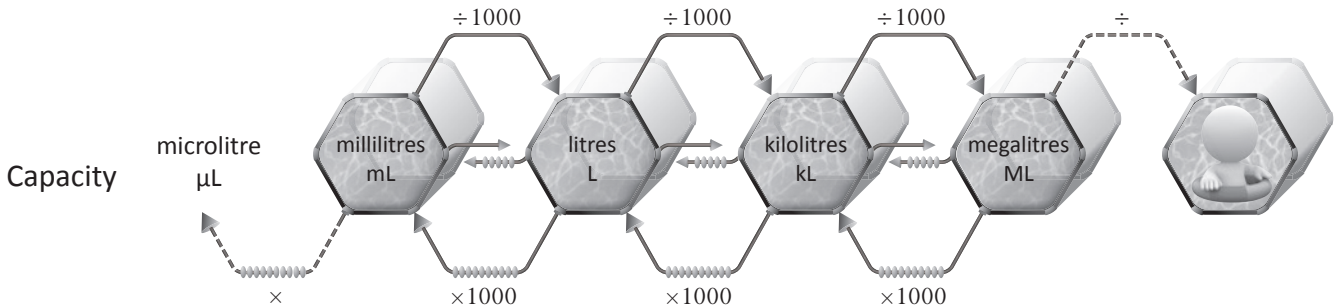
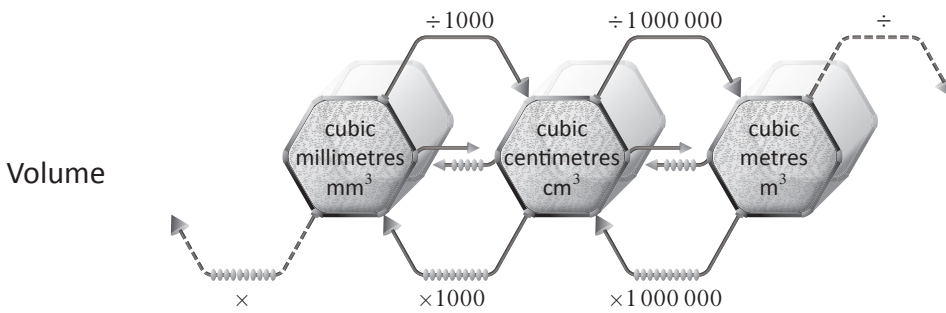
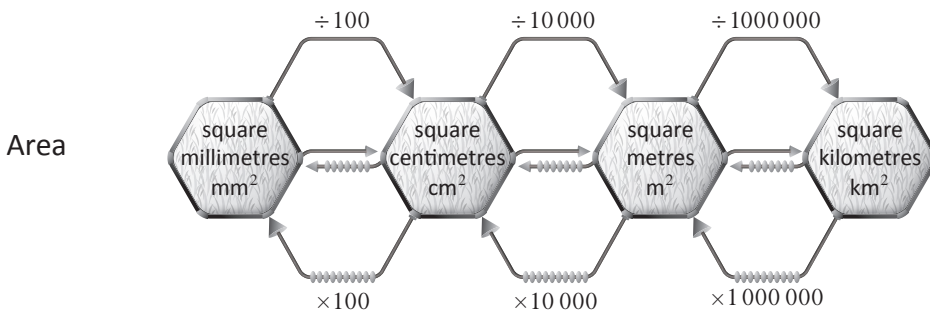
Changing between units of mass



Changing between units of length



Area, volume and capacity conversions



Changing between units of time

