

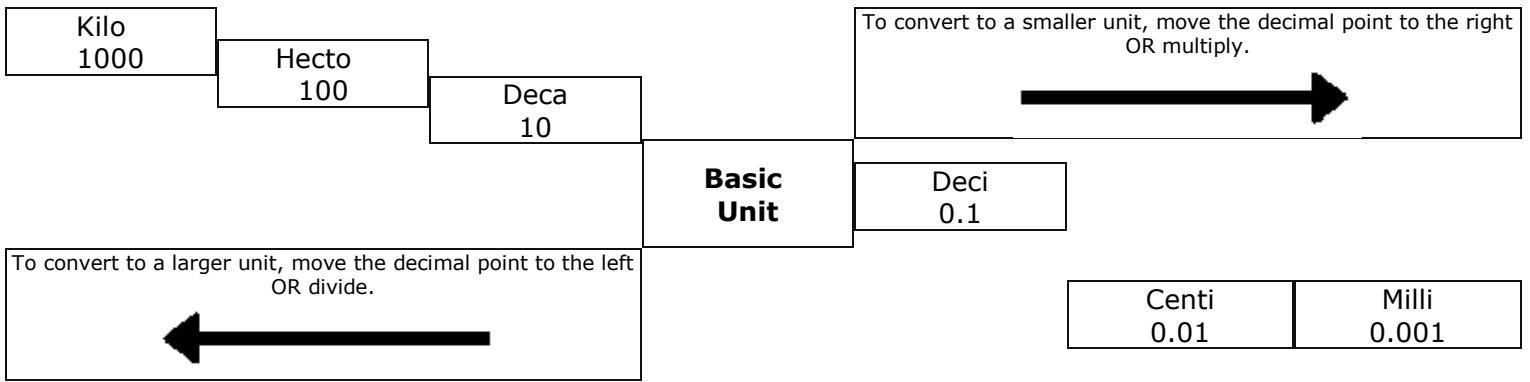
## Metric Table

kilo	k	1 0 0 0	a thousand
hecto	h	1 0 0	a hundred
deca	da	1 0	ten
		1	
deci	d	0 . 1	a tenth
centi	c	0 . 0 1	a hundredth
milli	m	0 . 0 0 1	a thousandth

**K**ids
**H**ave
**D**ropped
**O**VER
**D**ead
**C**onverting

<b>Length meters</b>	<b>Weight (Mass) grams</b>	<b>Volume (Liquids) liters</b>
kilometers 1 0 0 0	kilograms 1 0 0 0	kiloliters 1 0 0 0
hectometers 1 0 0	hectograms 1 0 0	hectoliters 1 0 0
decameters 1 0	decagrams 1 0	decaliters 1 0
meters 1	grams 1	liters 1
decimeters 0 . 1	decigrams 0 . 1	deciliters 0 . 1
centimeters 0 . 0 1	centigrams 0 . 0 1	centiliters 0 . 0 1
millimeters 0 . 0 0 1	milligrams 0 . 0 0 1	milliliters 0 . 0 0 1

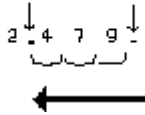
## Metric Conversion Lesson



1. 2479 mg = \_\_\_\_\_ g

You are moving from a small unit to bigger one, so you must move the decimal to the left or divide when converting.

new placement      original placement



Place your finger on the milli box. Count until you reach the basic unit box, which in this case represents grams. You have counted to 3 therefore, you must move the decimal 3 places to the left.

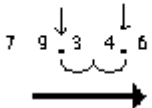
$$2479 / 1000 = 2.479$$

There are 1000 milligrams in a gram. Therefore you must divide 2479 by 1000.

2. 79.346 L = \_\_\_\_\_ cL

You are moving from a big unit to smaller one, so you must move the decimal to the right or multiply when converting.

original placement      new placement



Place your finger on the centi box. Count until you reach the basic unit box, which in this case represents liters. You have counted to 2 therefore, you must move the decimal 2 places to the right.

$$79.346 \times 100 = 7934.6$$

There are 100 centiliters in a liter. Therefore you must multiply 2479 by 100.

## Rule to Remember -

If you are changing from a large unit to a smaller one (Example: feet to inch) you should **multiply**.

If you are changing from a small unit to a larger one (Example: inch to feet) you should **divide**.

**big** > small = multiply

Examples:

yards > feet  
miles > yards  
tons > pounds  
gallons > quarts

small > **big** = divide

Examples:

feet > yards  
yards > miles  
pounds > tons