## Measuring in Metric

In Canada we use 2 systems of measurement: The SI (System International d'unites) which is the $\qquad$ and the $\qquad$ (US system).

## Metric System

The SI system, or metric system was first developed during the French Revolution in the 1790s. It became the adopted system of measurement to make trade with other countries easier. We use the SI system in our daily lives but the imperial system is used in most trades. For example plumbers and builders take measurements in both $\qquad$ . Therefore, it is important to understand both systems.

## Did you know?

When the metric system was developed in France, a metre (the base of the metric system) was defined as one ten-millionth of the distance from the North Pole to the equator.

In 1983 the definition changed as science needed a more precise measurement. It is now agreed upon that a metre is the length traveled by light in a vacuum during $\frac{1}{299,792,458}$ of a second. In the metric system the base unit for measuring length is the meter $(m)$. The base unit for measuring volume is the Litre (L).

The metric system is based on $\qquad$ .

This is important because for any SI unit, it can be converted to another SI unit by either multiply or divide $\qquad$ .
Converting Metric Units

|  |  | $\times 10$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| King | Henry | Doesn't | [Usually] | Drink | Chocolate | Milk |
| Meter |  |  |  |  |  |  |
| hector dea | mit | dec | cents | milli |  |  |

The unit can change between meters (for distance), grams (for mass), or litres (volume). The ones that you will use the most are kilo, unit (mostly metre), centi and milli. It is important to know the rest so that you can see how many times to multiply or divide.


Workplace Math 10 - Measurement

Convert the following units to the desired metric units.


0.001

Convert the following units: (hint: be sure to look at the units, ask yourself 'am I going from small to large or large to small?")


HD LCM

20 158
1090. 1500

160

