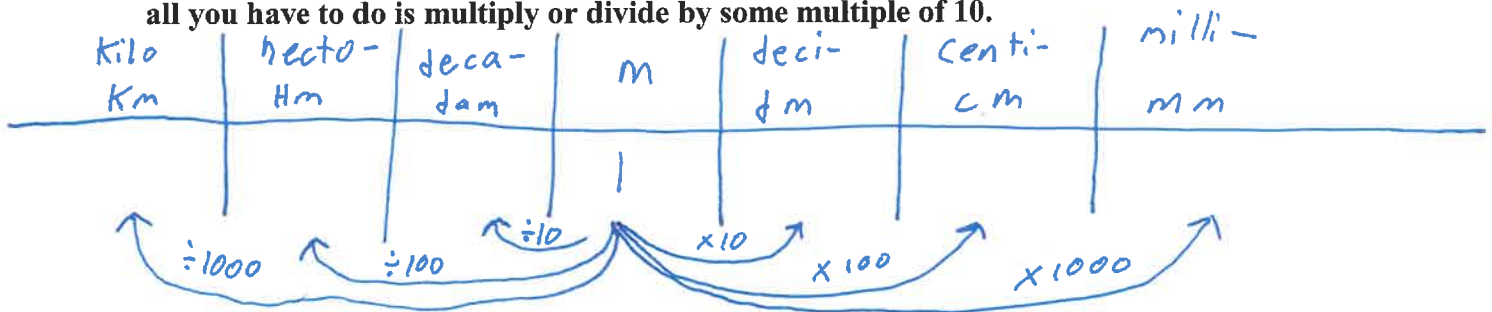


2.4 The Metric System

It was evident that everyone's body was different sizes. This caused confusion in measurement. The French created a standard unit of measurement called the metric system in 1790. This is today's international system of unit for measurement.

The Metric System uses the number 10 as its base. This makes converting easier as all you have to do is multiply or divide by some multiple of 10.



From the middle if we move right
 → move the decimal right the
 same # of places as lines
 you cross

Examples of conversion set up a proportion

ex 1. 321 m → Km

$$\frac{1 \text{ Km}}{1000 \text{ m}} = \frac{x}{321}$$

$$x = 0.321$$

$$\underline{321} \text{ m} \rightarrow 0.321 \text{ Km}$$

ex 2. 232 m → ~~mm~~ mm

$$232 \text{ m} \rightarrow 232000 \text{ mm}$$

Show you know

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?')

20mm =	2	cm
5260mm =	5.26	m
165791200mm =	165.7912	km
15cm =	150	mm
502m =	0.502	km
157mm =	15.7	cm
1.6m =	160	cm
1565mm =	0.001565	km
245cm =	2450	mm
35cm =	0.35	m
50350m =	50.35	km