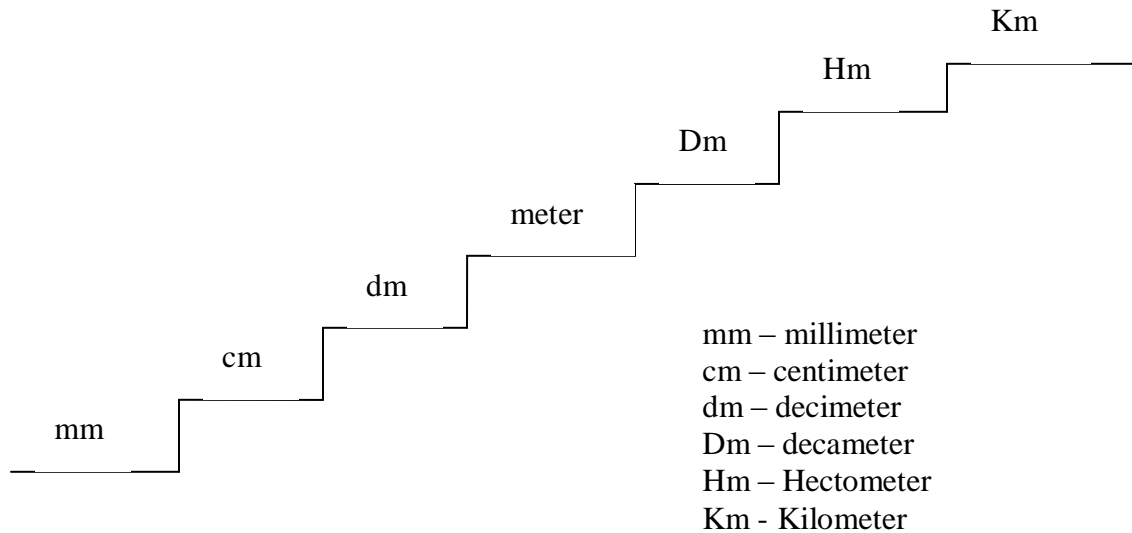


**Metric Measurement** – The metric system measures length (meters), volume (liters), and weight (grams). The process for conversion is exactly the same whether you are dealing with meters, liters, or grams. I have listed the different units of the metric system.



**Conversions** – To make conversions in the metric system is easy. If you are moving up the staircase, you divide by a factor of 10 for each step. For example, 2,550 millimeters would be equal to 255 cm ( $2,550 \div 10$ ). 2,550 millimeters would also be equal to 2.5 meters ( $2,500 \div 1,000$ ). You divide by 1,000 because you are moving up the staircase 3 steps (10, 100, 1000). For each step you move down, you multiply by a factor of 10. If you had 34 Km, you would have 34,000 meters ( $34 \times 1,000$ ). You multiply by 1,000 because you are moving down 3 steps (10, 100, 1000).

**TASK #1:** Your first task is to complete the following conversions:

5 Km = \_\_\_\_\_ m

85 m = \_\_\_\_\_ cm

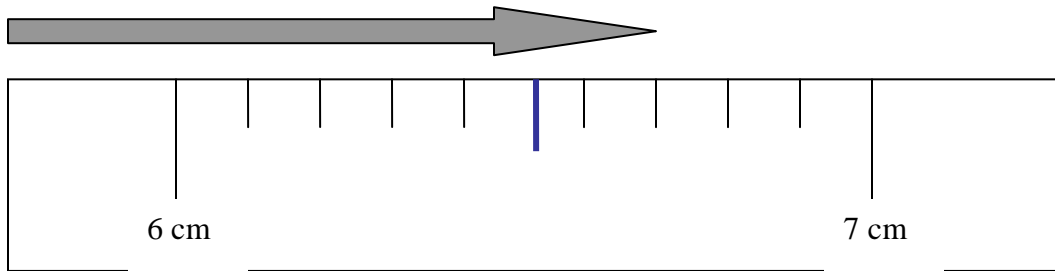
12,000 mm = \_\_\_\_\_ dm

65.5 Km = \_\_\_\_\_ m

27 m = \_\_\_\_\_ cm

95,670 cm = \_\_\_\_\_ Dm

**Using a ruler:** Measuring using the metric system is fairly basic. There are ten lines in between each cm. These represent millimeters. Here is an example:



The length of the arrow would be 6.7 cm.

**TASK #2:** During this task, you need to draw lines that are the following length:

5 cm

3.6 cm

10.1 cm

8.5 cm

**TASK #3:** Time to put both skills to use! Get a measuring tape from Mr. G. Go down to the small gym and measure the length and width of the gym floor in meters. Then, make the following conversions:

Mm \_\_\_\_\_

Cm \_\_\_\_\_

dm \_\_\_\_\_

METERS \_\_\_\_\_

Dm \_\_\_\_\_

Hm \_\_\_\_\_

Km \_\_\_\_\_