

Name \_\_\_\_\_

Date \_\_\_\_\_

Science \_\_\_\_\_



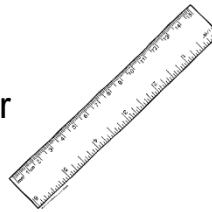
Length is one of the most important measurements to humans. It determines countless sizes in everyday life, and also can be used to construct unbelievable structures. Ancient civilizations, such as the Aztecs and the Egyptians, were able to make measurements during their history that amaze modern men to this day. Some lengths that are measured are huge such as the distance between stars, which is often measured in light years. Some of the lengths are quite small, such as the size of atoms, measured in angstroms. The ruler is a tool whose invention changed civilization. It can not only be used to find the distance between 2 objects, but can be used to find other measurements by the use of formulas, such as area and volume. Therefore, the ability to use a ruler is a very important skill.

**Materials:**

Pencil



Ruler



Calculator



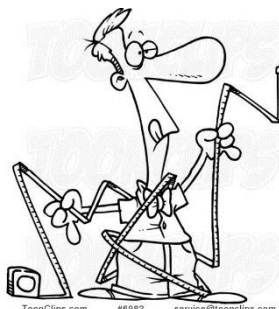
**Procedure :**

**Step 1** - Measure the length of each of the line segments found in the data table provided. \*Be sure to use CENTIMETERS and to record your answer in the table.

**Step 2** - Convert the length measurements in centimeters to:  
Meters  
Millimeters  
Decimeters

**Step 3** - Convert the measurement from centimeters to inches by multiplying by 0.4.  
 $1 \text{ cm} \times 0.4 = 0.4 \text{ inches}$

**Step 4** - Measure the length of the same line segment in inches between each line segment listed in the table.



Name \_\_\_\_\_

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Science Period \_\_\_\_



LAB

- 1.) Measure the length of each line segment listed in the chart below. Be sure to measure using CENTIMETERS.
- 2.) Convert this measurement to METERS, DECIMETERS, and MILLIMETERS and record in the chart.
- 3.) Convert your measurement from CENTIMETERS to INCHES by multiplying your measurement by **0.4**.
- 4.) Measure the line segment using INCHES to check your conversion.

Segment	Measure Centimeters	Convert Meters	Convert Decimeters	Convert Millimeters	Convert Inches	Measure Inches
AD						
CG						
BG						
AE						
EF						
BF						
FG						

Answer the following questions:

What metric unit would be used to measure the following items?

1. Length of a fly \_\_\_\_\_
2. Depth of a swimming pool \_\_\_\_\_
3. Length of a football field \_\_\_\_\_
4. Distance from Syracuse to Florida \_\_\_\_\_

