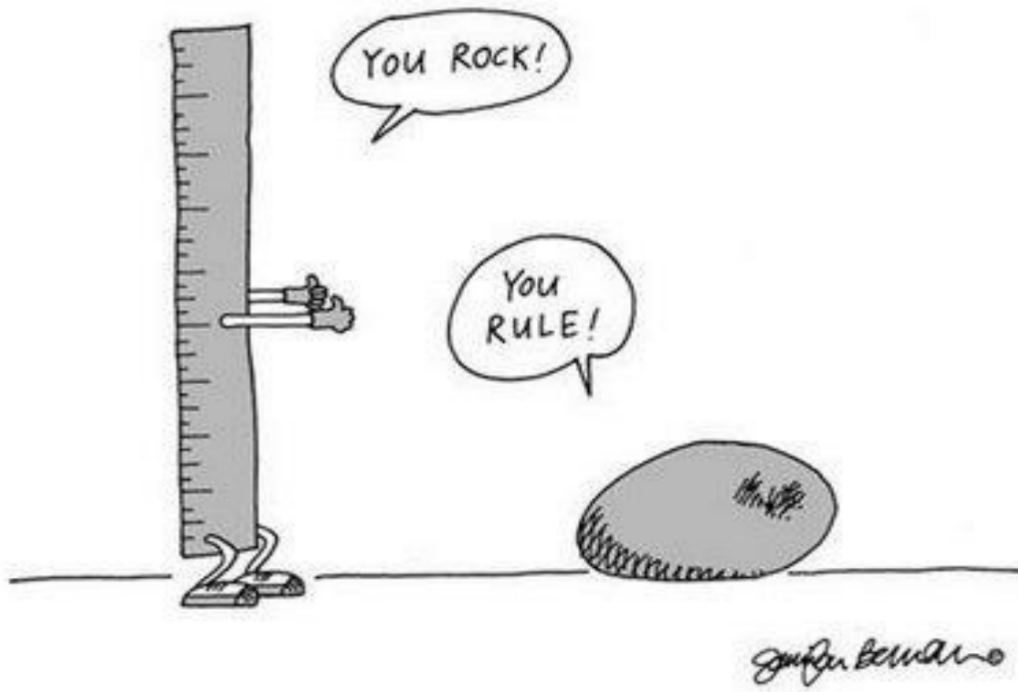


Metric Mania

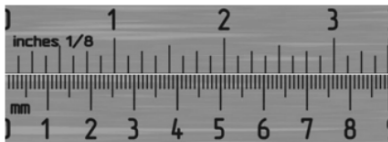


Lesson 1: Length

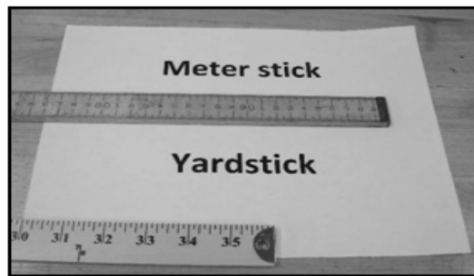
T. Trimpe 2008 <http://sciencespot.net/>



English vs. Metric Units



1 inch = 2.54
centimeters



1 yard = 0.9144 meters

1 mile
1.6 kilometers

English

Metric

Which is longer?

- A. 1 mile or 1 kilometer
- B. 1 yard or 1 meter
- C. 1 inch or 1 centimeter

What is "One Meter"?

A meter is the basic unit of length.
Represented by a lower case m.



The distance that light travels through
a vaccum in $1/299,792,458$ of a second.

k

m

Metric Units

c

m

m

m

m

Metric Units

1 Kilometer (km) = 1000 meters

1 Meter = 100 Centimeters (cm)

1 Meter = 1000 Millimeters (mm)

Click the image
watch a short video
about the metric

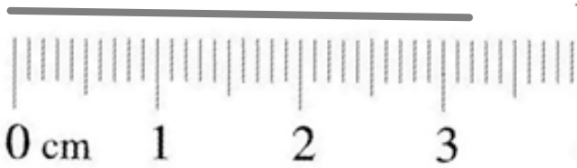
Look at your meter stick to answer the following questions

1. How long is your meter stick? _____
2. How many cm are in a meter? _____
3. Find one cm. How many mm are in one cm? _____
4. How many mm are in 10 cm? _____

Use your meter stick and circle the measurements which are the larger.

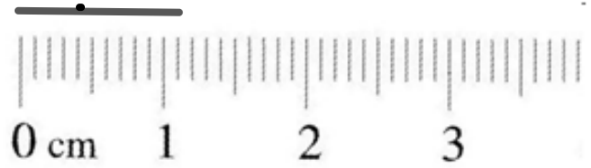
- | | |
|--------------------------------|--------------------------------------|
| A. 1 meter or 105 centimeters | C. 12 centimeters or 102 millimeters |
| B. 4 kilometers or 4400 meters | D. 1200 millimeters or 1 meter |

Measuring Length



Measure the green line...

_____ cm
_____ mm



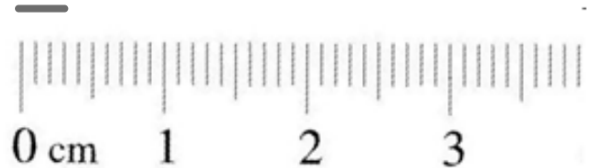
Measure the red line...

_____ cm
_____ mm



Measure the blue line...

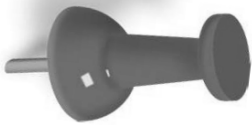
_____ cm
_____ mm



Measure the purple line...

_____ cm
_____ mm

Measure the following items...



_____ cm

_____ mm

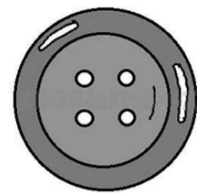
Nearest cm _____



_____ cm

_____ mm

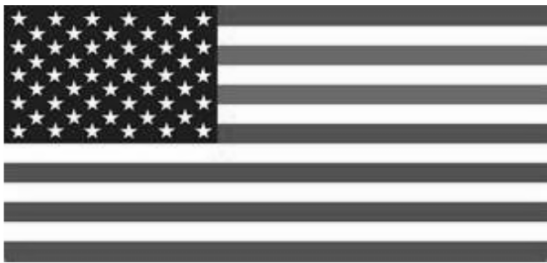
Nearest cm _____



Diameter in cm _____

Diameter in mm _____

Nearest cm _____



Short Red Stripe in cm _____

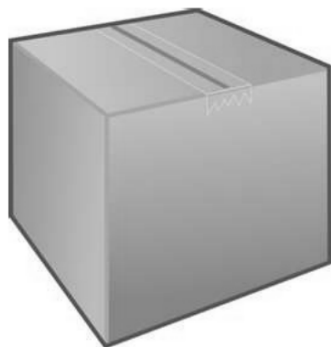
Long Red Stripe in mm _____

Length of Blue area in cm _____

Finding Volume

The volume of a SOLID object is _____ x _____ x _____

Find the volume of the cardboard box below



_____ x _____ x _____

_____ x _____ x _____ = _____

With your Partner....

1) Find the length of the longest side of your table.

in m _____ in cm _____ in mm _____

2) Find the height of one of the doors in the classroom. (Measure from top down!)

in m _____ in cm _____ in mm _____

3) Find the height of your desk.

in m _____ in cm _____ in mm _____

4) Find the width of one window.

in cm _____ in mm _____

5) Find the length of a dry erase marker.

in cm _____ in mm _____

6) Find the distance between the two lines on the floor.

in cm _____ in mm _____

7) Find the volume of a dry erase marker. _____ x _____ x _____ = _____

