# Length Lab

Name _____

**1.** What does each unit represent?

      (a) mm = _____      (b) m = _____

      (c) cm = _____      (d) km = _____

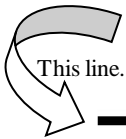**2.** How much does each one equal?

      (a) 1 m = _____ cm     (b) 1 cm = _____ mm     (c) 1 km = _____ m

**3.** Which measurement is the largest? Circle your answer for each pair.

      (a) 14 mm or 1 cm                  (d) 145 m or 145 km

      (b) 334 m or 1 km                  (e) 3.4 cm or 30 mm

      (c) 1 m or 990 cm                  (f) 10 km or 1000 cm
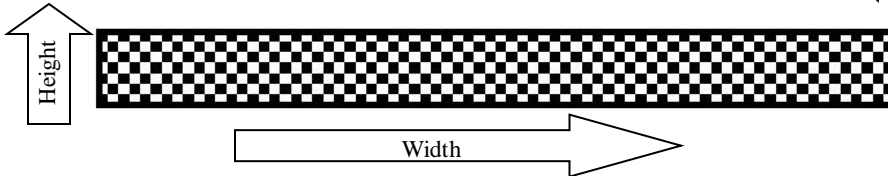
**4.** Use a ruler to find each measurement.

      (a) Length of the line in centimeters _____

This line.       (b) Length of the line to the _nearest_ centimeter _____

**HINT:** If it says "nearest", you need to round your answer so you don't have a decimal point. If not, you should have one decimal point in your answer.
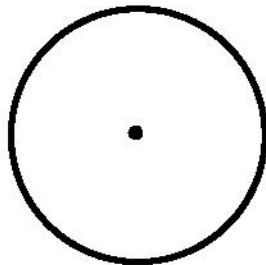
      (c) Height of the rectangle to the _nearest_ millimeter _____

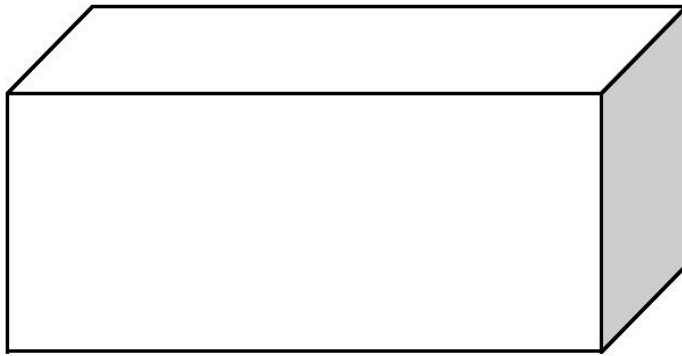      (d) Width of the rectangle to the _nearest_ millimeter _____

Remember to label every number!!

Height

Width

      (e) Radius of the circle to the nearest millimeter _____

      (f) Diameter of the circle in centimeters _____

      (g) Diameter of the circle to the _nearest_ centimeter _____

Did you label??

(h) Volume of the box in cubic centimeters

_____ x _____ x _____ = _____

(Measure to the _nearest_ centimeter before multiplying.)

Did you label every number?

**5.** Find the length of an unsharpened pencil (including eraser) in millimeters. _____

**6.** What is your height in centimeters? _____ What is your height in meters? _____

**7.** Find the distance between the two pieces of tape in meters. _____

Did you label??

**8.** Use your shoe – not your foot - and a metric ruler to complete this section.
 (a) What is the length of your shoe to the nearest centimeter? _____
 (b) How many shoes would it take (heel to toe) to make 1 meter? _____
 (c) How many shoes would it take to make 1 kilometer? _____

**9.** Use ten pennies and a metric ruler to complete this section.
 (a) How tall is a stack of ten pennies in centimeters? _____
 (b) How tall would a stack of 100 pennies be in centimeters? _____
 (c) How tall would a stack of 1000 pennies be in centimeters? _____

Did you label every number?

**10.** Circle the BEST metric unit for each.
 (a) The length of an eyelash      mm    cm    m    km

 (b) The height of a flagpole      mm    cm    m    km

 (c) The length of a strand of spaghetti      mm    cm    m    km

 (d) The distance from Chicago, IL, to Peoria, IL.      mm    cm    m    km