

# Length and Measurement Lab

Name \_\_\_\_\_ Per. \_\_\_\_

1. What does each unit represent?

a) mm = \_\_\_\_\_ c) m = \_\_\_\_\_

b) 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. When measuring in cm with your lab rulers, you will have 2 decimal places. *The word "nearest" means that you will have NO decimal places.*

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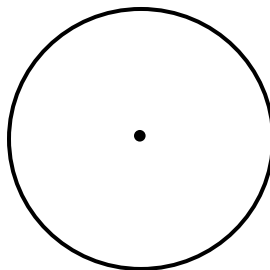
a) Length of the line in centimeters \_\_\_\_\_

b) Length of the line to the nearest centimeter \_\_\_\_\_



c) Height of the rectangle to the nearest millimeter \_\_\_\_\_

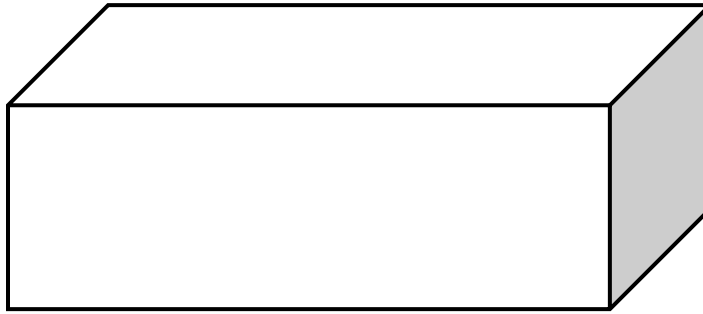
d) Width of the rectangle to the nearest millimeter \_\_\_\_\_



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 \_\_\_\_\_



h) Volume of the box in cubic centimeters

\_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 (Measure to the nearest centimeter before multiplying).

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 index cards in the hallway, in meters. \_\_\_\_\_  
 (Identify which pair you are measuring – ‘A’ or ‘B’)

8. Use your shoe and a metric ruler to complete this section. Keep your shoes on for this!

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? \_\_\_\_\_

10. Circle the BEST metric unit for each.

a) The height of a flagpole.....mm      cm      m      km

b) The length of an eyelash.....mm      cm      m      km

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

d) The distance from Milwaukee, WI to Green Bay, WI .....mm      cm      m      km