

# Length Lab

Name \_\_\_\_\_

1. What does each unit represent?

- (a) mm = \_\_\_\_\_ (b) m = \_\_\_\_\_  
(c) cm = \_\_\_\_\_ (d) km = \_\_\_\_\_

2. How much does each one equal?

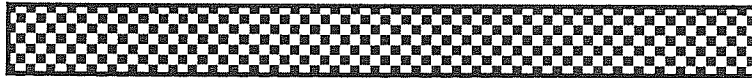
- (a) 1 m = \_\_\_\_\_ cm (b) 1 cm = \_\_\_\_\_ mm (c) 1 km = \_\_\_\_\_ m

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

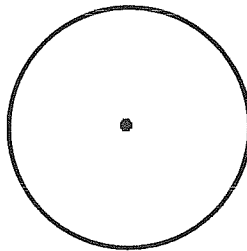
- (a) 14 mm or 1 cm (d) 145 m or 145 km  
(b) 334 m or 1 km (e) 3.4 cm or 30 mm  
(c) 1 m or 990 cm (f) 10 km or 1000 cm

4. Use a metric ruler or meter stick to find each measurement.

- 
- (a) Length of the line in centimeters \_\_\_\_\_  
(b) Length of the line to the nearest centimeter \_\_\_\_\_

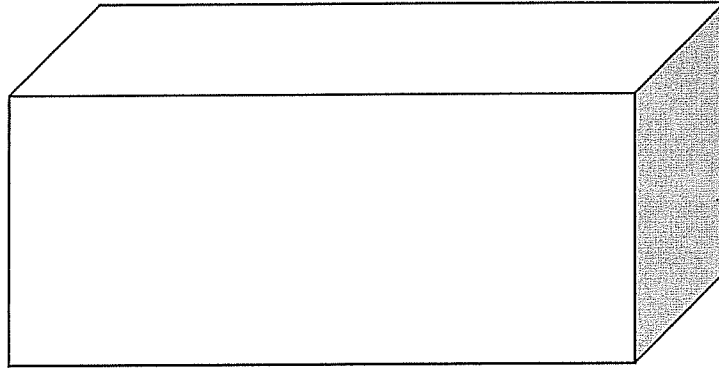


- (c) Height of the rectangle to the nearest millimeter \_\_\_\_\_  
(d) Width of the rectangle to the nearest millimeter \_\_\_\_\_



- (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 \_\_\_\_\_

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.



(h) Volume of the box in cubic centimeters

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

(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. \_\_\_\_\_
8. Use your shoe and a metric ruler to complete this section. Keep your shoes on for this one!
  - (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 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