

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## ***PRACTICE MEASUREMENT SKILLS***

Pick up a metric ruler and look carefully at the scale. You will see lots of little lines and every so often a much longer line marked with a number. The longer lines are centimeter (cm) marks, and the shorter lines are one-tenth of a centimeter (0.1), or millimeter (mm) lines.

1. Using your metric ruler, draw a line that is 3 cm long.
  
2. Draw a line that is 7 cm long.
  
3.
  - a. Draw a line that is 1 cm long.
  
  - b. Now draw a line that is 10 mm long.
  
4. How many millimeters are there in 1 cm?
  
5. What part of a centimeter is 1 mm?

The metric ruler can measure distance easily in millimeters or centimeters. If you want to measure in millimeters, just multiply the numbers on the scale by 10. For example, the line marked 7 now becomes 70.

For questions 6 and 7, measure the lines in both mm and cm. If the line is not exactly a cm use a decimal point to separate cm from mm.

6.
  - a. Measure the length of the following line in millimeters and centimeters.

\_\_\_\_\_

Length = \_\_\_\_\_ mm

Length = \_\_\_\_\_ cm

- b. Measure the length of the following line in millimeters and centimeters.



Length = \_\_\_\_\_ mm

Length = \_\_\_\_\_ cm

7. a. Measure the length of the following line in millimeters and centimeters.



Length = \_\_\_\_\_ mm

Length = \_\_\_\_\_ cm

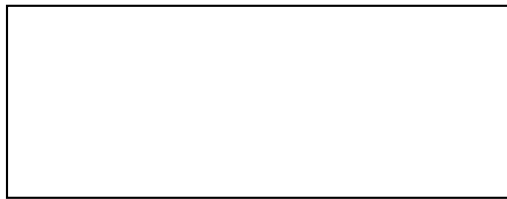
- b. Measure the length of the following line in millimeters and centimeters.



Length = \_\_\_\_\_ mm

Length = \_\_\_\_\_ cm

8. Measure the length and width of the box below in centimeters and millimeters.



Length = \_\_\_\_\_ cm = \_\_\_\_\_ mm

Width = \_\_\_\_\_ cm = \_\_\_\_\_ mm

9. Calculate the area of the box by multiplying the length times the width.  
SHOW YOUR CALCULATIONS!

Area = \_\_\_\_\_  $\text{cm}^2$  = \_\_\_\_\_  $\text{mm}^2$

If you look over the work you have done, you should be able to answer the following questions without redoing any measurements. **Answer in full sentences.**

10. How do you change a measurement from centimeters to millimeters?

11. How do you change a measurement from millimeters to centimeters?