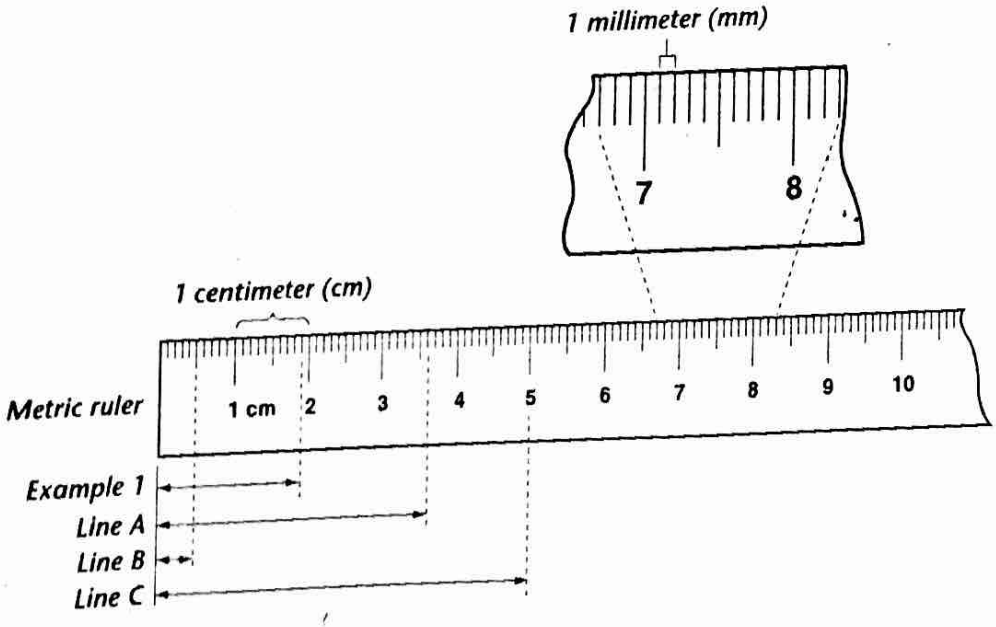
Name _____ Date _____ Class _____

SKILLS PRACTICE

Measuring: Length

Write your answers to the questions below in the spaces provided. If you need more space, use the back of this sheet.

Length is the distance between two points. Length is usually measured with rulers. Examine the metric ruler diagramed below. Notice that the labeled units are in centimeters (cm). Small vertical lines separate each centimeter into 10 sections. Each of these sections measures 0.1 (or $\frac{1}{10}$) of a centimeter, which equals 1 millimeter (mm). When you use a metric ruler, decide which of these units you will use. For example, if you measure the line in Example 1 in millimeters, you would say it's 19 mm long. If you measure it in centimeters, you would say it's 1.9 cm long.



1. How many millimeters long is Line A? _____
2. How many centimeters long is Line A? _____
3. How many millimeters long is Line B? _____
4. How many centimeters long is Line B? _____
5. How many millimeters long is Line C? _____
6. How many centimeters long is Line C? _____

Hint: Did you include the proper unit in each of your measurements? If not, go back and label them.

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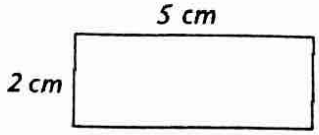
Measuring: Length *(continued)*

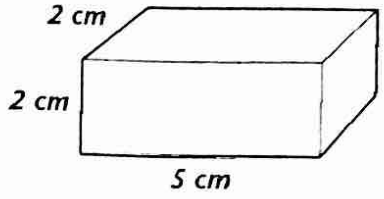
Using Length Measurements to Find Area and Volume

You can use metric measurements to find the area of a figure by multiplying length × width.



Area = 5 cm × 2 cm = 10 cm^2

You can use metric measurements to find the volume by multiplying length × width × height.



Volume = 5 cm × 2 cm × 2 cm = 20 cm^3

7. What is the length of the figure on the right?

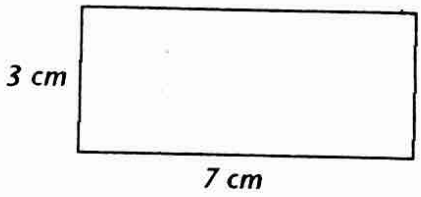
_____

8. What is the width of the figure on the right?

_____

9. What is the area of the figure on the right?

_____



10. What is the length of the figure on the right?

_____

11. What is the width of the figure on the right?

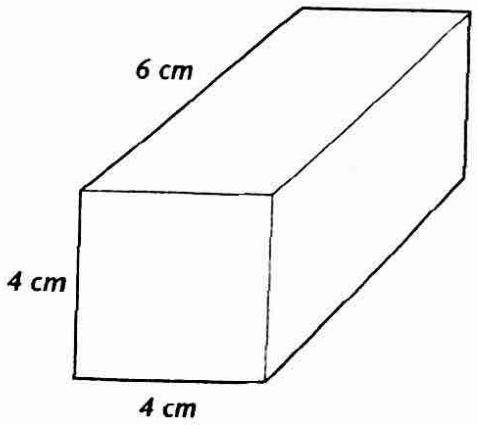
_____

12. What is the height of the figure on the right?

_____

13. What is the volume of the figure on the right?

_____



14. **Think About It** If the measurements of a rectangle are 30 mm by 70 mm, would its area be the same size as the area of the rectangle for Questions 7–9? Explain.