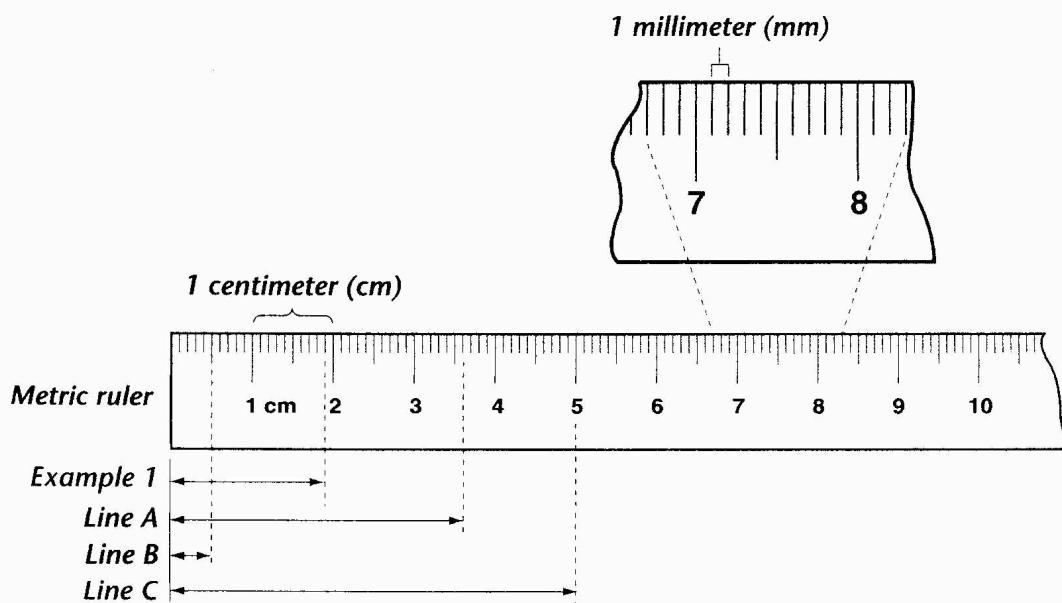


# Science Skills 6

## Measuring Length

Write your answers to the questions below in the spaces provided.

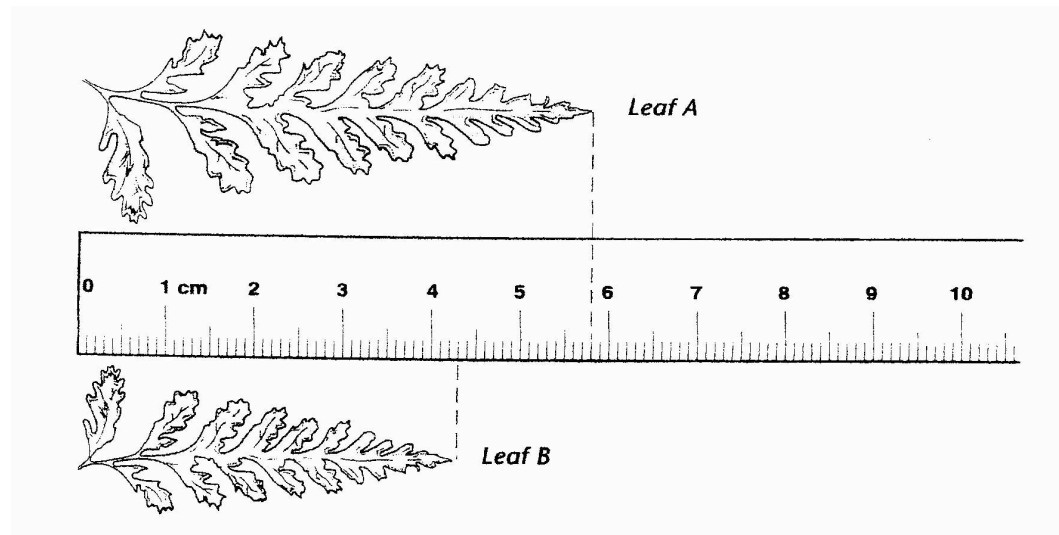
Length is the distance between two points. Length is usually measured with rulers. Examine the metric ruler diagramed below. Notice that the labeled units are in centimeters (cm). Small vertical lines separate each centimeter into 10 sections. Each of these sections measures 0.1 (or  $\frac{1}{10}$ ) 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.



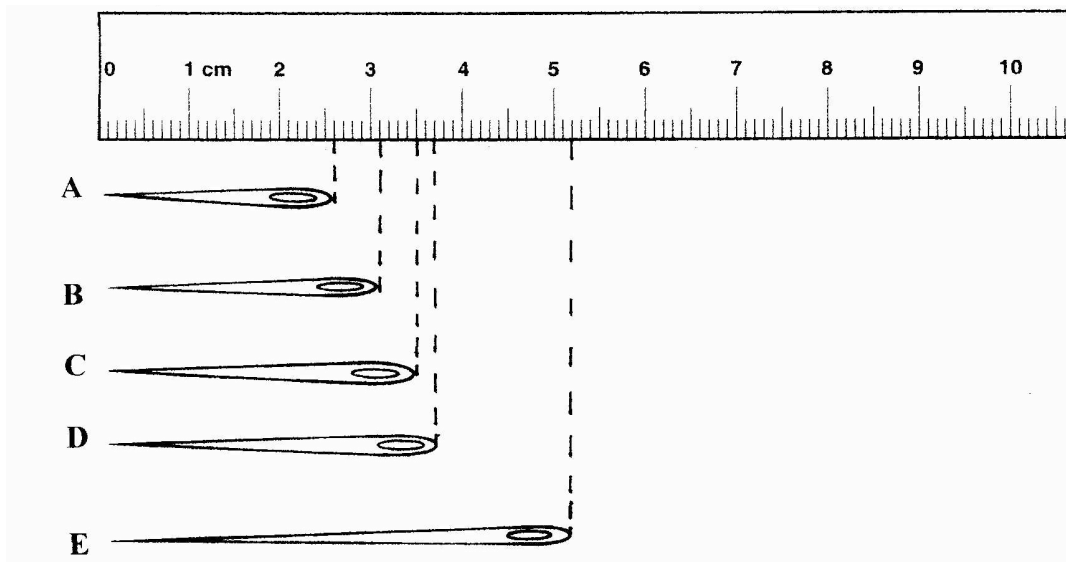
1. How many millimeters long is Line A? \_\_\_\_\_
2. How many centimeters long is Line A? \_\_\_\_\_
3. How many millimeters long is Line B? \_\_\_\_\_
4. How many centimeters long is Line B? \_\_\_\_\_
5. How many millimeters long is Line C? \_\_\_\_\_
6. How many centimeters long is Line C? \_\_\_\_\_

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

Use the diagrams below to answer each question. Write your answer on the line at the left. Don't forget to use the correct units!



- \_\_\_\_\_ 1. How many centimeters long is Leaf A?
- \_\_\_\_\_ 2. How many centimeters long is Leaf B?
- \_\_\_\_\_ 3. How many centimeters longer is Leaf A than B?
- \_\_\_\_\_ 4. How many millimeters long is Leaf A?
- \_\_\_\_\_ 5. How many millimeters long is Leaf B?



- \_\_\_\_\_ 6. How many centimeters long is needle A?
- \_\_\_\_\_ 7. How many centimeters long is needle B?
- \_\_\_\_\_ 8. How many centimeters long is needle C?
- \_\_\_\_\_ 9. How many centimeters longer is needle C than A?
- \_\_\_\_\_ 10. How many millimeters long is needle B?
- \_\_\_\_\_ 11. How many millimeters long is needle C?
- \_\_\_\_\_ 12. How many millimeters long is needle D?
- \_\_\_\_\_ 13. How many millimeters long is needle E?
- \_\_\_\_\_ 14. How many millimeters longer is needle E than D?