






# ME5-8: Centimetres

A centimetre is a unit of measurement for length (or height, or thickness).

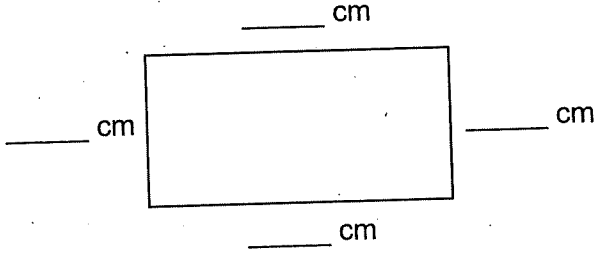
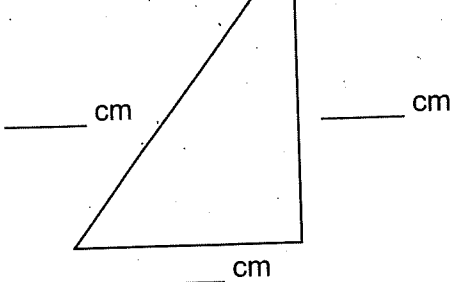
1. Measure the length of each line using your ruler.

- a)  \_\_\_\_\_ cm
- b)  \_\_\_\_\_ cm
- c)  \_\_\_\_\_ cm

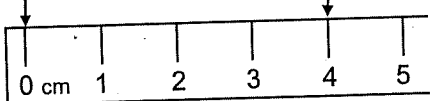
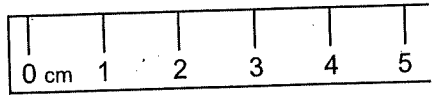
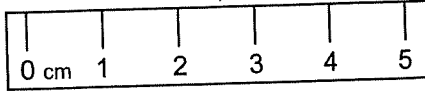
2. Measure the length of each object using your own ruler.

- a)  \_\_\_\_\_ cm
- b)  \_\_\_\_\_ cm

3. Measure all the sides of each shape.

- a)  \_\_\_\_\_ cm
- b)  \_\_\_\_\_ cm

4. Draw two arrows on each ruler that are the given distance apart.

- a) Two arrows 4 cm apart. 
- b) Two arrows 3 cm apart. 
- c) Two arrows 5 cm apart. 

5. Draw the following objects.

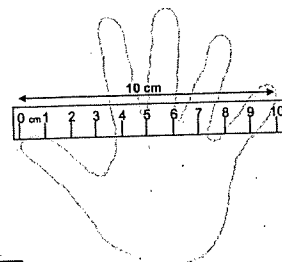
- a) a line 3 cm long
- b) a line 5 cm long
- c) a ladybug 1 cm long
- d) a shoe 4 cm long

6. Your index finger is about 1 cm wide. Measure an object on your desk with your index finger:

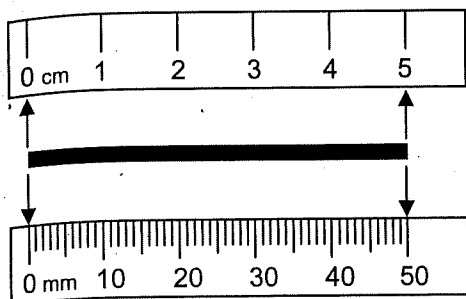
My \_\_\_\_\_ is approx. \_\_\_\_\_ cm long.

7. How far do you need to spread your fingers to make 10 cm?  
Use your hand to find the approximate length of your desk in cm.  
Then measure the exact length of your desk in cm:

Approximate length: \_\_\_\_\_ Exact length: \_\_\_\_\_



If you look at a ruler with **millimetre** markings, you can see that 1 cm is equal to 10 mm.



How long is the line in cm? How long is it in mm?

The line is \_\_\_\_\_ cm long, or \_\_\_\_\_ mm long.

To convert a measurement from cm to mm, we have to multiply the measurement by \_\_\_\_\_.

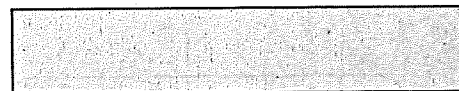
1. Your index finger is about 1 cm or 10 mm wide. Measure the objects below using your index finger. Then convert your measurement to mm.

a)



The paper clip measures about \_\_\_\_\_ index fingers.  
So, the paper clip is approximately \_\_\_\_\_ mm long.

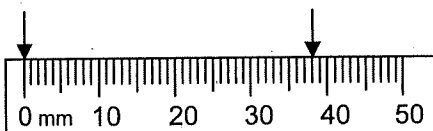
b)



The rectangle measures about \_\_\_\_\_ index fingers.  
So, the rectangle is approximately \_\_\_\_\_ mm long.

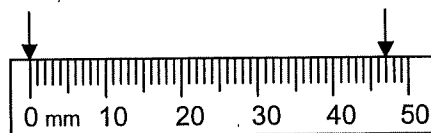
2. Measure the distance between the two arrows on each ruler.

a)



\_\_\_\_\_ mm

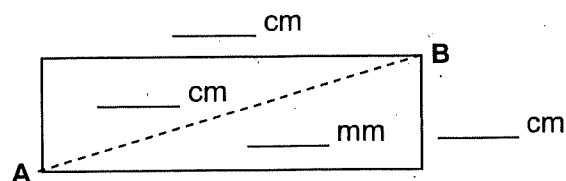
b)



\_\_\_\_\_ mm

3. Measure the sides of the rectangle in cm. Then measure the distance between the two diagonal corners in cm and mm.

**NOTE: Your answer in cm will be a decimal.**



4. Use a ruler to draw the following objects to the exact millimetre.

a) A line 20 mm long.




b) Draw a line 52 mm long.

c) A beetle 35 mm long.

d) A pencil 70 mm long.

# ME5-9: Millimetres and Centimetres *(continued)*

5. Estimate whether each line is less than 40 mm or more than 40 mm. Place a checkmark in the appropriate column. Then measure the actual length.

	Less than 40 mm	More than 40 mm
a) 		
b) 		
c) 		

a) \_\_\_\_\_ mm

b) \_\_\_\_\_ mm

c) \_\_\_\_\_ mm

6. To change a measurement from centimetres (cm) into millimetres (mm), what should you multiply the measurement by?

7. Fill in the numbers missing from the following charts.

mm	cm
	13
	32

mm	cm
	8
	18

mm	cm
	213
	170

mm	cm
	9
	567

8. To change a measurement from mm to cm what should you divide by? \_\_\_\_\_

9. Change the measurements.

a) 460 mm = \_\_\_\_\_ cm

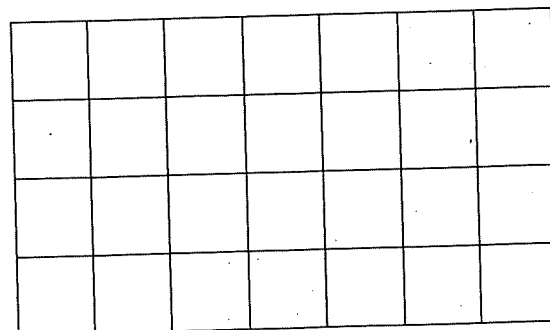
b) 60 mm = \_\_\_\_\_ cm

c) 580 mm = \_\_\_\_\_ cm




10. Circle the greater measurement in each pair.  
**HINT: Convert one of the measurements so that both units are the same. Show your work.**

- a) 5 cm                      70 mm
- b) 83 cm                    910 mm
- c) 45 cm                    53 mm
- d) 2 cm                      12 mm
- e) 60 cm                    6200 mm

11. Draw a rectangle 2 cm high and 50 mm long.



12. Using your ruler, draw a second line so that the pair of lines are the given distance apart. Complete the chart.

	Distance apart	
	in cm	in mm
	4	40
	3	
		80

13. In the space provided, draw a line that is between ...

a) 4 and 5 cm.

How long is your line in mm? \_\_\_\_\_

b) 6 and 7 cm.

How long is your line in mm? \_\_\_\_\_

14. Write a measurement in mm that is between ...

a) 7 and 8 cm: \_\_\_\_\_ mm      b) 27 and 28 cm: \_\_\_\_\_ mm

15. Write a measurement in a whole number of cm that is between ...

a) 67 mm and 75 mm: \_\_\_\_\_ cm      b) 27 mm and 39 mm: \_\_\_\_\_      c) 52 mm and 7 cm: \_\_\_\_\_

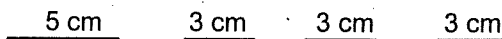


16. Draw a line that is a whole number of centimetres long and is between ...

a) 35 and 45 mm      b) 55 and 65 mm      c) 27 and 33 mm

17. Carl has a set of sticks: some are 5 cm long and some are 3 cm long.

The picture (not drawn to scale) shows how he could line up the sticks to measure 14 cm:



Draw a sketch to show how Carl could measure each length by lining the sticks up end to end.

a) 8 cm      b) 11 cm      c) 13 cm      d) 26 cm      e) 19 cm      f) 17 cm

BONUS

g) Use two 5 cm sticks and one 3 cm stick to draw a line 7 cm long.