

# RECALL – MEASURING LENGTH IN CENTIMETRES (CM)



## Instructions

1. Pick some different object around your home.
2. **Estimate** (sensible guess) how long it is and record in the table.
3. **Measure** the **length** of the objects using a ruler.
4. Record the length in the table.

Object	Estimated length	Actual length
	___ cm	___ cm
	___ cm	___ cm
	___ cm	___ cm

## 3 BEFORE ME

Remember to measure from 0 cm.



Compare objects using the symbols  $<$   $>$   $=$ .

\_\_\_  $>$  \_\_\_. The length of the \_\_\_ is \_\_\_ cm greater.  
The difference between \_\_\_ and \_\_\_ is \_\_\_ cm.



# LO: I CAN MEASURE LENGTHS (IN MILLIMETRES AND CENTIMETRES)

Page

## Success Criteria

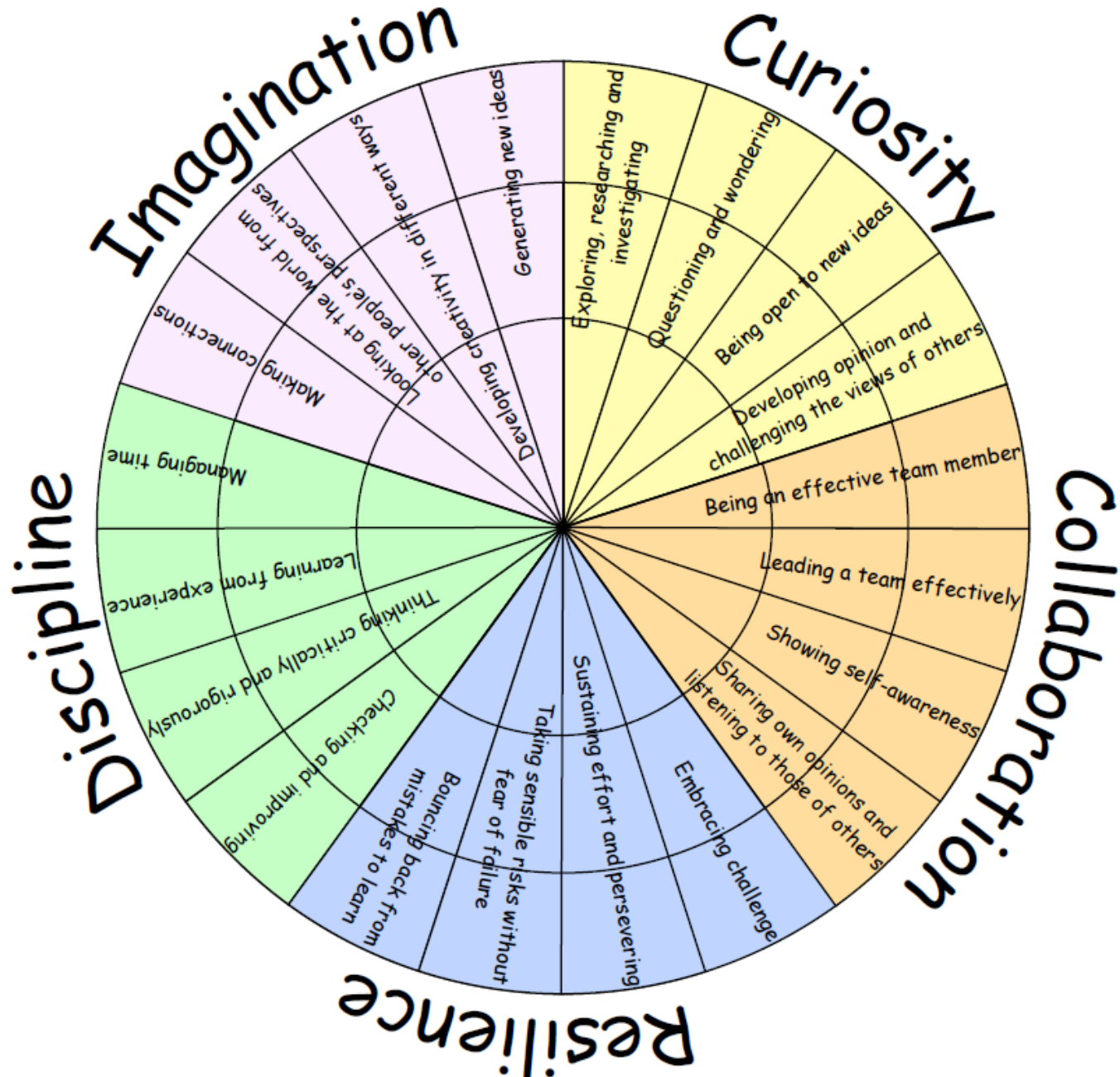
**Some will even** know equivalent measurements (convert cm and mm).

**Some will** measure in mm in between cm.

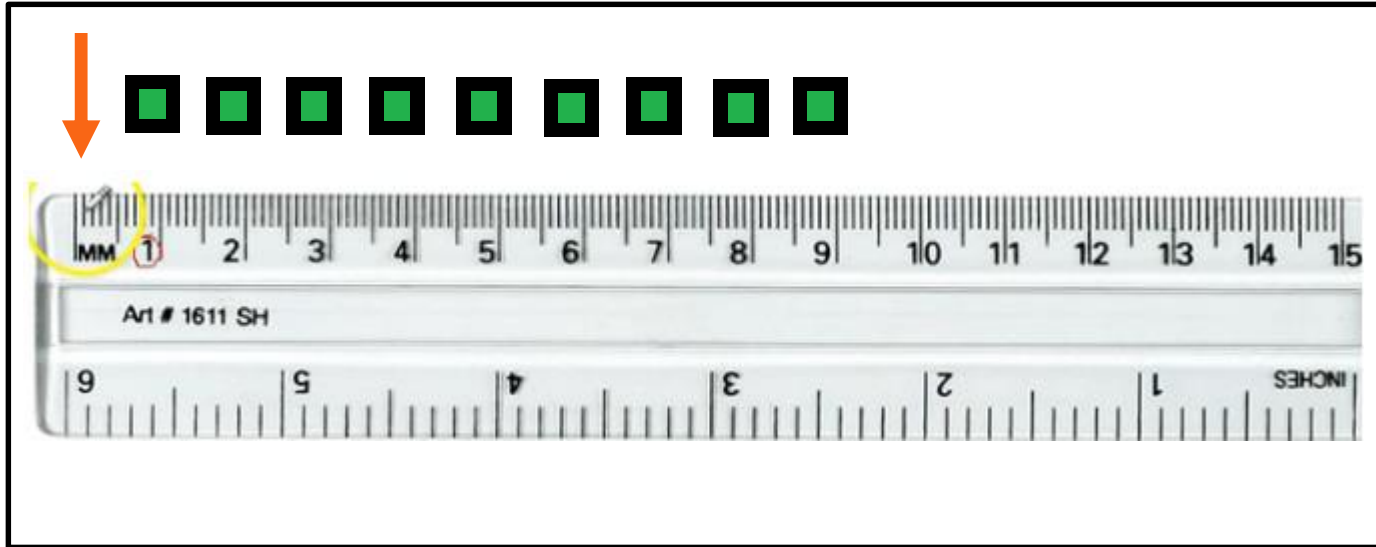
**Most will** measure in mm to the nearest cm.

**All will** estimate measure in cm and mm (with support).

# LEARNING HABITS?



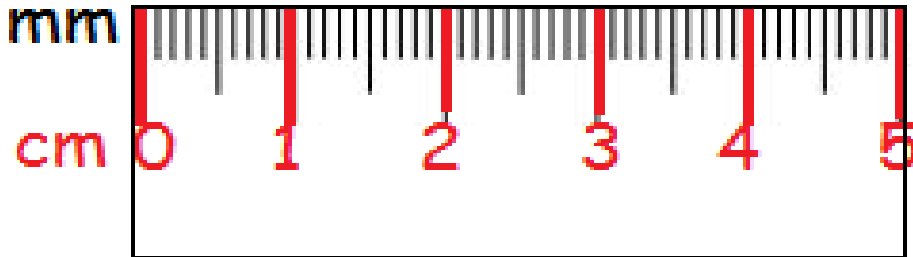
# GUIDED PRACTICE



This clear ruler shows centimetres (cm) across the top.

0 cm is **NOT** at the very start of the ruler.

0 cm is by the red arrow.



1cm is a small measurement.  
1cm is roughly the width of your finger.

Between each cm, there are lines for smaller measurements.

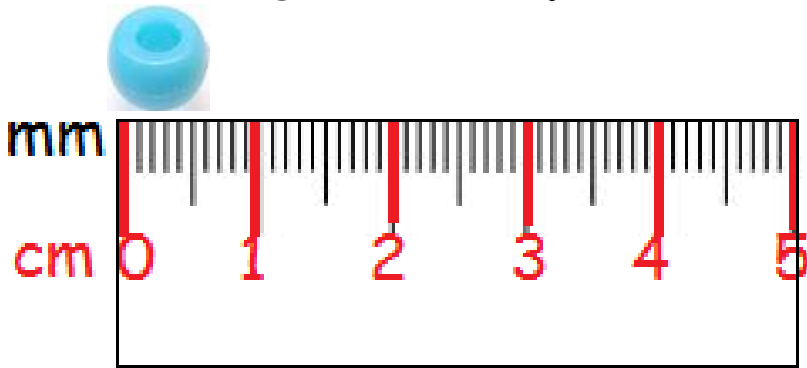
These are called millimetres (mm)

$6 \text{ mm} = 0.6 \text{ cm}$   
 $9 \text{ mm} = 0.9 \text{ cm}$   
 $16 \text{ mm} = 1.6 \text{ cm}$   
 $19 \text{ mm} = 1.9 \text{ cm}$   
 $26 \text{ mm} = 2.6 \text{ cm}$

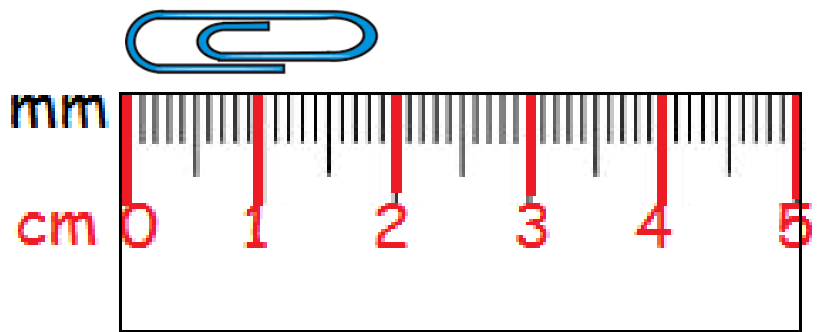
$10 \text{ mm} = 1 \text{ cm}$   
 $20 \text{ mm} = 2 \text{ cm}$   
 $30 \text{ mm} = 3 \text{ cm}$   
 $40 \text{ mm} = 4 \text{ cm}$   
 $50 \text{ mm} = 5 \text{ cm}$

# GUIDED EXAMPLE

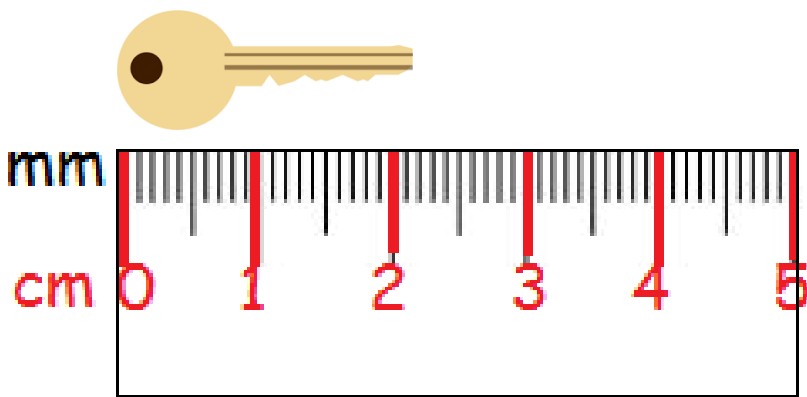
What is the length of these objects?



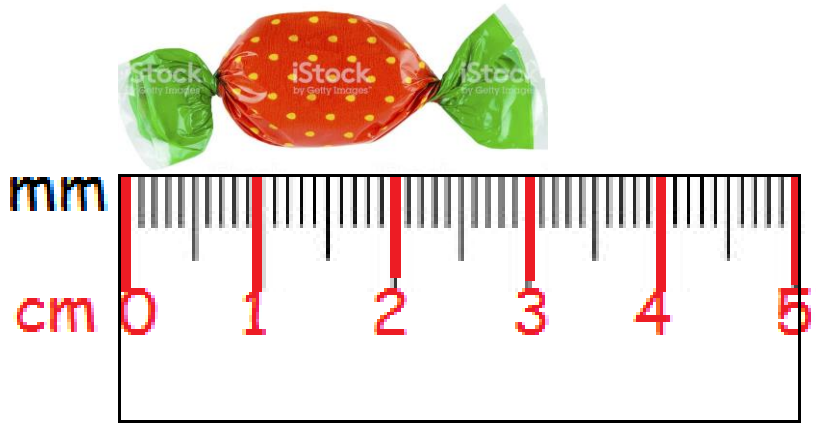
The bead is 4 mm long. This is equivalent to 0.4 cm.



The clip is 1 mm long. This is equivalent to 0.1 cm.

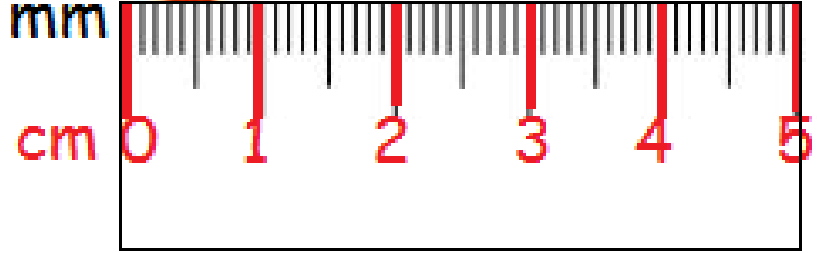


The key is 4 mm long. This is equivalent to 0.4 cm.

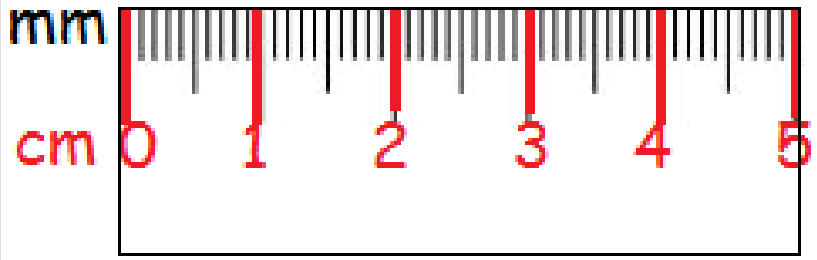


The sweet is 1 mm long. This is equivalent to 0.1 cm.

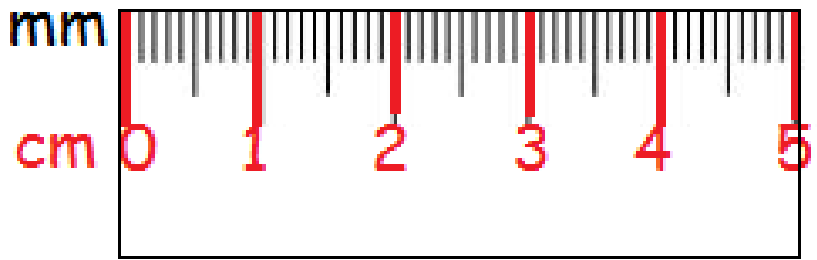
# INTELLIGENT PRACTICE



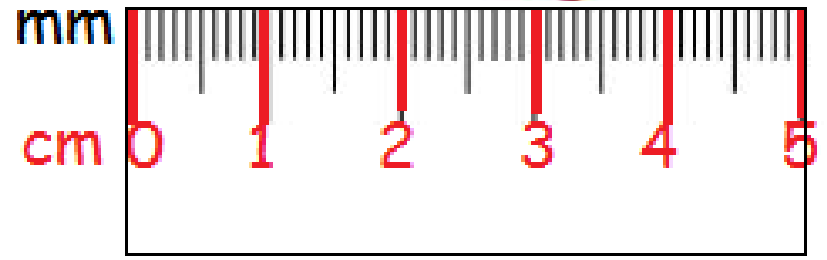
The Skittle is 10 mm long.  
This is the same as      cm.



The Fruit Pastille is 20 mm long.  
This is the same as      cm.

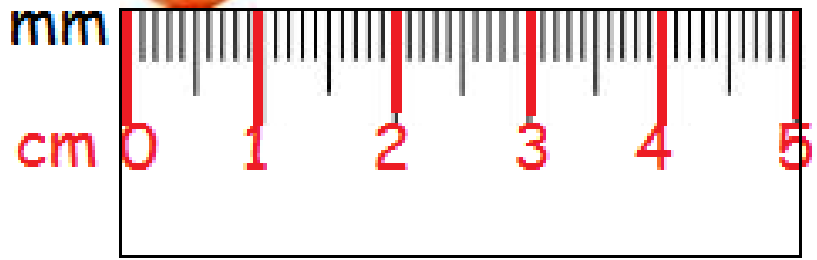


The Gummy Bear is      mm long.  
This is the same as 3 cm.

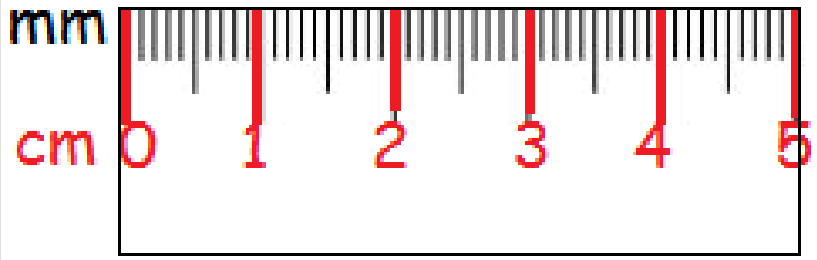


The Fruit Salad is      mm long.  
This is the same as 4 cm.

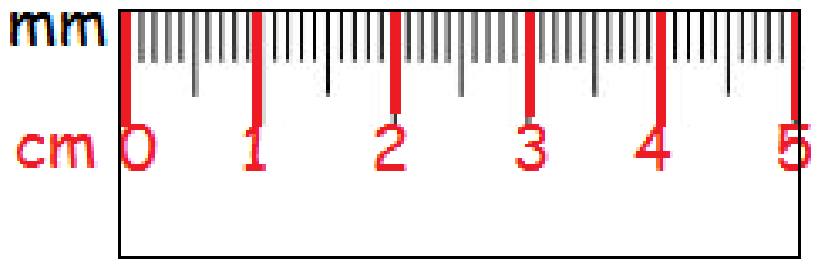
# INTELLIGENT PRACTICE ANSWERS



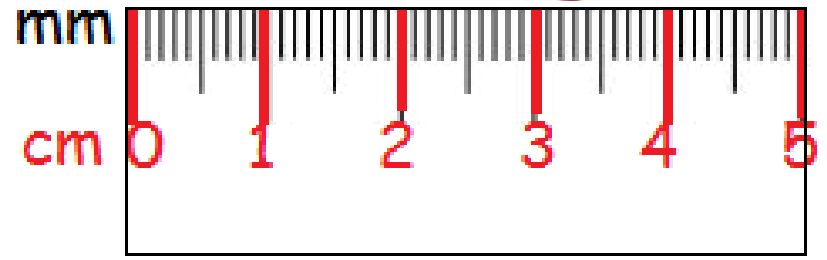
The Skittle is 10 mm long.  
This is the same as 1 cm.



The Fruit Pastille is 20 mm long.  
This is the same as 2 cm.

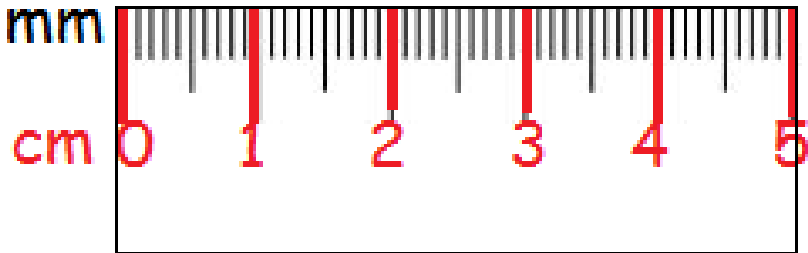


The Gummy Bear is 30 mm long.  
This is the same as 3 cm.

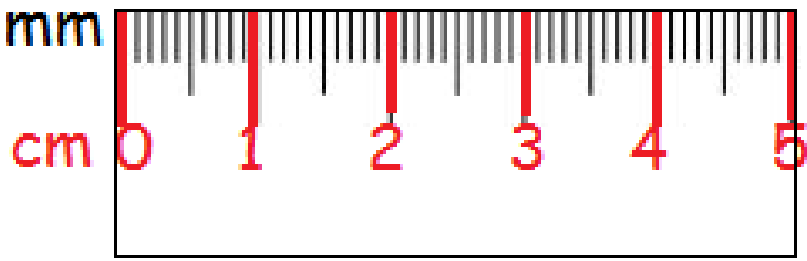


The Fruit Salad is 40 mm long.  
This is the same as 4 cm.

# INTELLIGENT PRACTICE



The lolly is 25mm long.  
This is the same as   .  cm.



The fizzy dummy sweet is 37 mm long.  
This is the same as   .  cm.

Complete these sentences.



3 mm = 0.3 cm

5 mm = 0.    cm

7 mm =   .   cm

   mm = 0.9 cm

11 mm is the same as 1.1 cm

13 mm is the same as 1.    cm

16 mm is the same as   .   cm

   mm is the same as 1.8 cm

20 mm = 2 cm

21 mm = 2.    cm

24 mm =   .   cm

   mm = 2.8 cm

31 mm = 3.1 cm

37 mm =   .   cm

42 mm =   .   cm

   mm = 4.5 cm

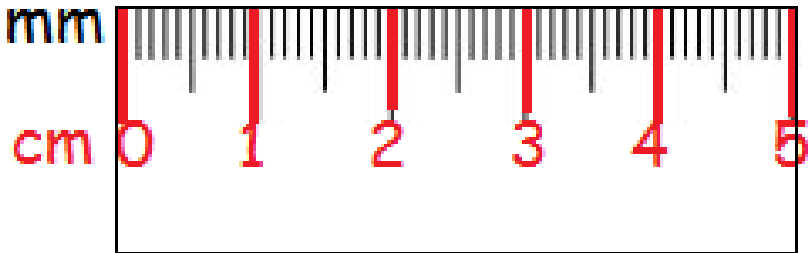
3 BEFORE ME

Look at the scale.

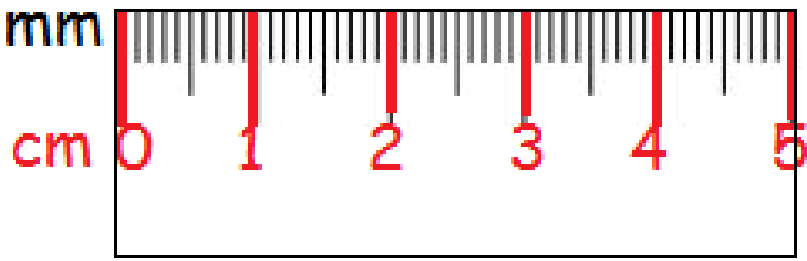




# INTELLIGENT PRACTICE ANSWERS



The lolly is 25mm long.  
This is the same as 2.5 cm.



The fizzy dummy sweet is 37 mm long.  
This is the same as 3.7 cm.

Complete these sentences.

- 3 mm = 0.3 cm
- 5 mm = 0.5 cm
- 7 mm = 0.7 cm
- 9 mm = 0.9 cm

- 11 mm is the same as 1.1 cm
- 13 mm is the same as 1.3 cm
- 16 mm is the same as 1.6 cm
- 18 mm is the same as 1.8 cm

- 20 mm = 2 cm
- 21 mm = 2.1 cm
- 24 mm = 2.4 cm
- 28 mm = 2.8 cm

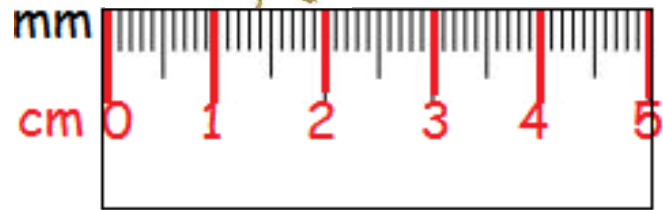
- 31 mm = 3.1 cm
- 37 mm = 3.7cm
- 42 mm = 4.2 cm
- 45 mm = 4.5 cm

3 BEFORE ME  
Look at the scale.



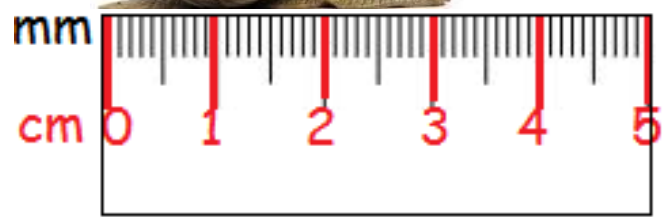
# DIVE DEEPER

1 What is the length of the grasshopper?  
Tick one.



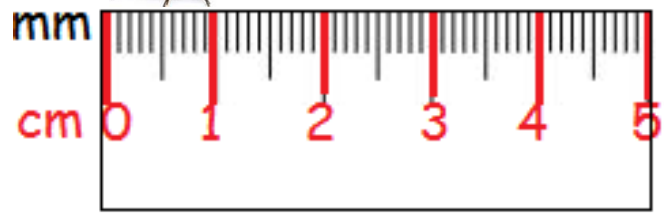
- 20 mm  
2 cm
- 30 mm  
3 cm
- 40 mm  
4 cm

2 What measurement is the snail?

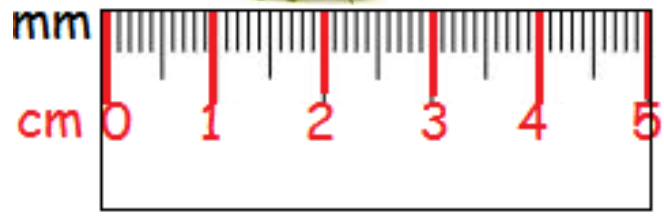


- 17 mm  
1.7 cm
- 25 mm  
2.5 cm
- 32 mm  
3.2 cm

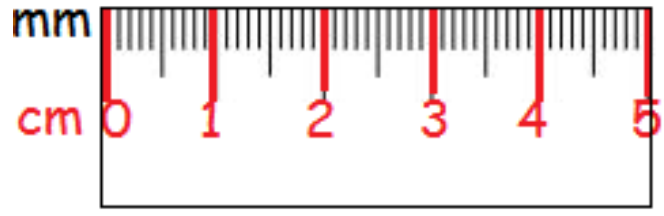
3 Measure the length of these creatures.



The ladybird is 12 mm long. This is the same as 1.2 cm



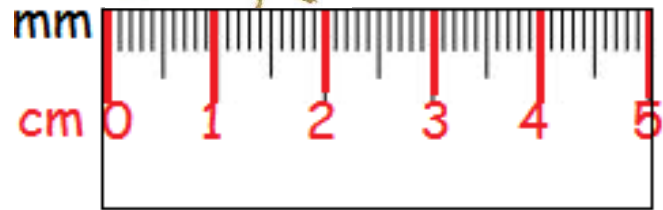
The caterpillar is 26 mm long.  
This is the same as 2.6 cm.



The bumblebee is 33 mm long.  
This is the same as 3.3 cm.

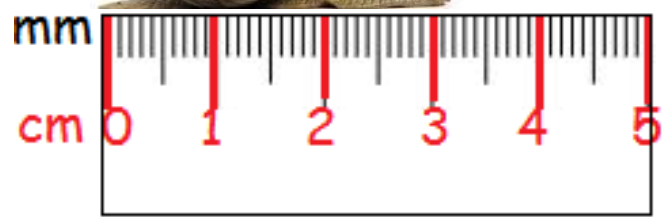
# DIVE DEEPER ANSWERS

1 What is the length of the grasshopper?  
Tick one.



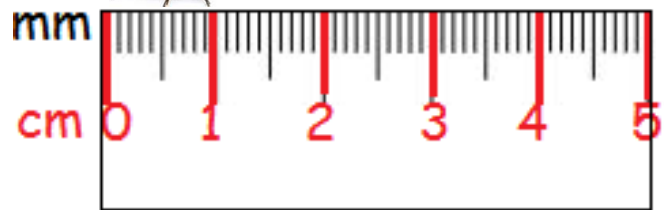
- 20 mm  
2 cm ✓
- 30 mm  
3 cm
- 40 mm  
4 cm

2 What measurement is the snail?



- 17 mm  
1.7 cm
- 25 mm  
2.5 cm
- 32 mm  
3.2 cm ✓

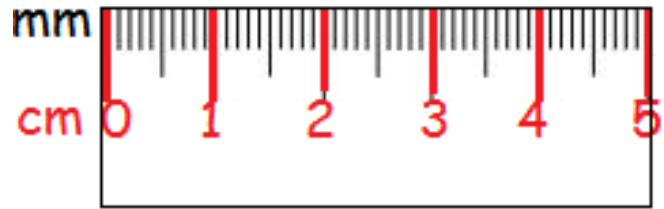
Measure the length of these creatures.



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This is the same as 3.3 cm.

# DIVE DEEPER 2 ANSWERS

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Compare these lengths using the symbols  $<$   $>$   $=$

17 mm		21 mm	2.3 cm		23mm
32 mm		3.2 cm	42 mm		3.7cm
1.9 cm		29cm	4 cm		42 mm

6

An ant is 41 mm long.  
This is equivalent to **4.1** cm.

A spider is 35 mm long.  
This is equivalent to **3.5** cm.

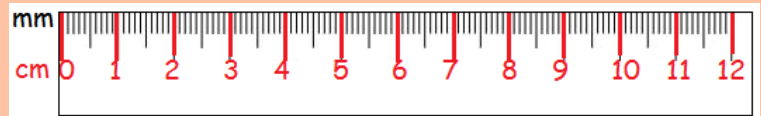
A woodlouse is 27 mm long.  
This is equivalent to **2.7** cm.

Use a ruler to draw lines that measure:

- 5 mm (0.5 cm)
- 9 mm (0.9 cm)
- 17 mm (1.7 cm)
- 21 mm (2.1 cm)
- 34 mm (3.4 cm)
- 48 mm (4.8 cm)
- 56 mm (5.6cm)

8

Draw this into your book.



Where would 61mm go?    85mm?    74mm?    99 mm?