

# Varied Fluency

## Step 1: Measure Length

**Teaching Note:** Please note that precise measurements are dependant upon printer settings.

**National Curriculum Objectives:**

Mathematics Year 3: (3M2a) [Measure lengths \(m/cm/mm\)](#)

**Differentiation:**

**Developing** Questions to support measuring in millimetres (mm) or centimetres (cm) only.

**Expected** Questions to support measuring in millimetres (mm), centimetres (cm) and metres (m) with some mixed units, using increments of 1cm and multiples of 5mm.

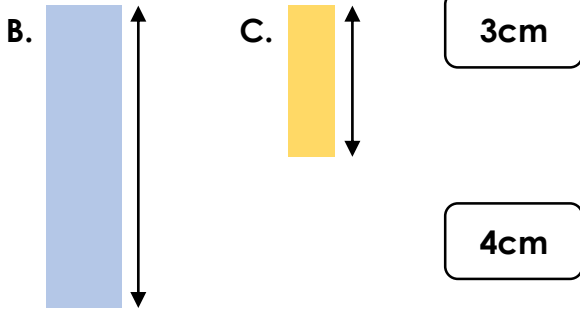
**Greater Depth** Questions to support measuring in millimetres (mm), centimetres (cm) and metres (m) with mixed units, using increments of 1cm and 1mm.

More [Year 2 and Year 3 Length Height and Perimeter](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

## Measure Length

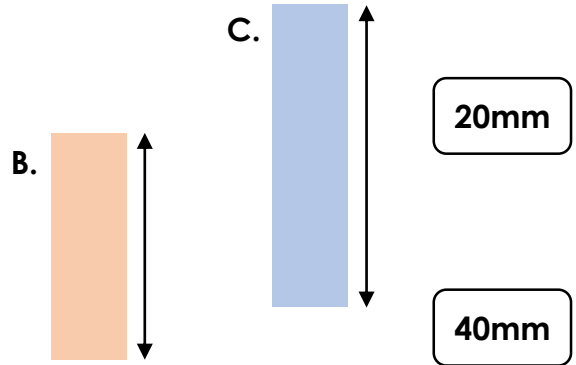
1a. Match each image to its length.



3 VF

## Measure Length

1b. Match each image to its length.



3 VF

2a. Imagine these objects are their usual size and match them to the most suitable length measurement.



fly



cat

50cm

6mm



3 VF

2b. Imagine these objects are their usual size and match them to the most suitable length measurement.



snake



moth

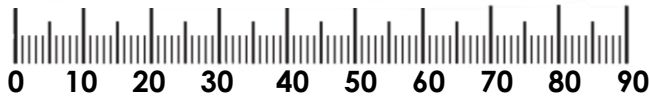
80cm

9mm



3 VF

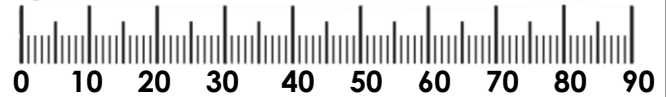
3a. True or false?  
The length of the bread is 50mm.



Not to Scale

3 VF

3b. True or false?  
The length of the carrot is 30mm.



Not to Scale

3 VF

4a. Complete the sentence below.



The line is  cm long.



3 VF

4b. Complete the sentence below.




The line is  cm long.





3 VF


## Measure Length

5a. Match each image to its length.

A. 

B. 

C. 


D. 

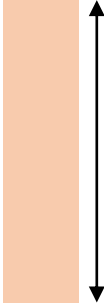



3 VF


## Measure Length

5b. Match each image to its length.

A. 

B. 

C. 

D. 



3 VF

6a. Imagine these objects are their usual size and match them to the most suitable length measurement.



ladybird



bus



book



3 VF

6b. Imagine these objects are their usual size and match them to the most suitable length measurement.



ant



plane



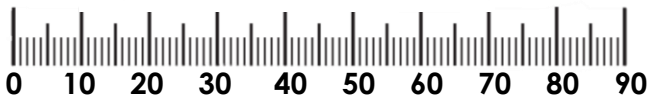
pencil



3 VF

7a. True or false?

The length of the pencil is 70mm.



Not to Scale

3 VF

7b. True or false?

The length of the snake is 80mm.



Not to Scale

3 VF

8a. Complete the sentences below.



The line is  cm and  mm long.

The line is  mm long.



3 VF

8b. Complete the sentences below.



The line is  cm and  mm long.


The line is  mm long.





3 VF


## Measure Length

9a. Match each image to its length.

A.  38mm

B.  3cm and 1mm

C.  5cm and 2mm


D.  46mm





3 VF


## Measure Length

9b. Match each image to its length.

A.  54mm

B.  37mm

C.  4cm and 3mm

D.  1cm and 6mm



3 VF

10a. Imagine these objects are their usual size and match them to the most suitable length measurement.



lion



helicopter



calculator

24m and 10cm

12cm and 5mm

1m and 90cm



3 VF

10b. Imagine these objects are their usual size and match them to the most suitable length measurement.



rubber



car



wolf

1m and 70cm

2cm and 80mm

4m and 50cm



3 VF

11a. True or false?

The length of the flower is 4cm and 5mm.



Not to Scale

3 VF

11b. True or false?

The length of the bunting is 9cm.



Not to Scale

3 VF

12a. Complete the sentences below.



The line is  cm and  mm long.

The line is  mm long.



3 VF

12b. Complete the sentences below.



The line is  cm and  mm long.

The line is  mm long.



3 VF

## Varied Fluency Measure Length

### Developing

- 1a. A – 3cm, B – 4cm, C – 2cm. Allow for slight variations due to printing.  
2a. fly – 6mm, cat – 50cm  
3a. False, the length of the bread is 60mm.  
4a. Answer should be: 4cm. Allow for slight variations due to printing.

### Expected

- 5a. A – 5cm, B – 3cm, C – 40mm, D – 20mm. Allow for slight variations due to printing.  
6a. ladybird – 1cm, bus – 11m, book – 150mm  
7a. False, the length of the pencil is 60mm.  
8a. Answer should be: 4cm, 5mm, 45mm. Allow for slight variations due to printing.

### Greater Depth

- 9a. A – 46mm, B – 3cm and 1mm, C – 38mm, D – 5cm and 2mm. Allow for slight variations due to printing.  
10a. lion – 1m and 90cm, helicopter – 24m and 10cm, calculator – 12cm and 5mm  
11a. False, the length of the flower is 4cm.  
12a. Answer should be: 5cm, 9mm, 59mm. Allow for slight variations due to printing.

## Varied Fluency Measure Length

### Developing

- 1b. A – 20mm, B – 30mm, C – 40mm. Allow for slight variations due to printing.  
2b. snake – 80cm, moth – 9mm  
3b. True  
4b. Answer should be: 5cm. Allow for slight variations due to printing.

### Expected

- 5b. A – 10mm, B – 4cm, C – 6cm, D – 30mm. Allow for slight variations due to printing.  
6b. ant – 7mm, plane – 75m, pencil – 19cm  
7b. True  
8b. Answer should be: 5cm, 5mm, 55mm. Allow for slight variations due to printing.

### Greater Depth

- 9b. A – 1cm and 6mm, B – 37mm, C – 54mm, D – 4cm and 3mm. Allow for slight variations due to printing.  
10b. rubber – 2cm and 80mm, car – 4m and 50cm, wolf – 1m and 70cm  
11b. False, the length of the bunting is 7cm and 5mm.  
12b. Answer should be: 6cm, 2mm, 62mm. Allow for slight variations due to printing.