Varied Fluency
Step 1: Measure Length

Teaching note: Please note that precise measurements are dependent upon printer settings. Two of the questions require children to measure, therefore children must be provided with a ruler.

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 1mm. Objects placed at different positions on the ruler.
Greater Depth Questions to support measuring in millimetres (mm), centimetres and metres (m) with mixed units, using increments of 1cm and 1mm. Objects placed at different positions on the ruler, with some increments not shown.

More Year 3 Length and Perimeter resources.

Did you like this resource? Don't forget to review it on our website.

Measure Length

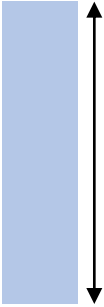## 1a. Match each image to its length.

A. [image]

2cm

B. [image]   C. [image]

3cm

4cm

VF

1b. Match each image to its length.

A. [image]

30mm

C. [image]
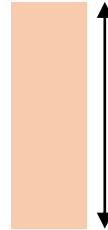
B. [image]

20mm

40mm

VF

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

fly   cat

35cm   6mm

VF

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

snake   moth

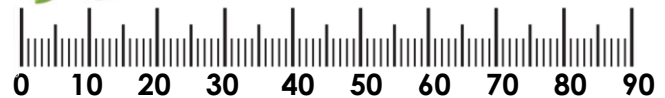80cm   9mm

VF

3a. Tick the length of the bread.

0 10 20 30 40 50 60 70 80 90

Not drawn to scale

50mm ☐   60mm ☐

VF

3b. Tick the length of the carrot.

0 10 20 30 40 50 60 70 80 90

Not drawn to scale

30mm ☐   35mm ☐

VF

4a. Complete the sentence below.

The line is ☐ cm long.

VF

4b. Complete the sentence below.

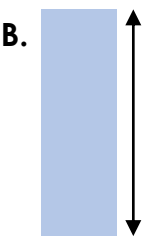The line is ☐ cm long.

VF

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Varied Fluency – Measure Length – Year 3 Developing

Measure Length

5a. Match each image to its length.

A.

C.

B.

40mm

5cm

3cm

D.

20mm

VF

Measure Length

5b. Match each image to its length.

A.

C.

B.

6cm

30mm

10mm

D.

4cm

VF

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

ladybird   bus   book

11m   8mm   15cm

VF

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

ant   plane   pencil

75m   16cm   7mm

VF

7a. Tick the length of the pencil.

4 5 6 7 8 9 10 11 12 13

Not drawn to scale

6cm and 4mm ☐ 7cm ☐

VF

7b. Tick the length of the snake.

2 3 4 5 6 7 8 9 10 11

Not drawn to scale

8cm and 1mm ☐ 9cm ☐

VF

8a. Complete the sentence below.

The line is ☐ cm and ☐ mm long.

VF

8b. Complete the sentence below.

The line is ☐ cm and ☐ mm long.

VF

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Varied Fluency – Measure Length – Year 3 Expected

Measure Length

9a. Match each image to its length.

A.

B.

C.

D.

38mm

3cm and 1mm

5cm and 2mm

46mm

VF

Measure Length

9b. Match each image to its length.

A.

B.

C.

D.

54mm

37mm

4cm and 3mm

1cm and 6mm

VF

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

lion

helicopter

calculator

| 24m and 16cm | 12cm and 3mm | 1m and 98cm |

VF

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

rubber

car

wolf

| 1m and 43cm | 2cm and 84mm | 4m and 57cm |

VF

11a. Tick the length of the flower.

3   12

Not drawn to scale

3cm and 7mm ☐   6cm and 8mm ☐

VF

11b. Tick the length of the bunting.

5   14

Not drawn to scale

9cm and 1mm ☐   7cm and 9mm ☐
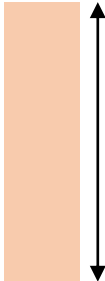
VF

12a. Complete the sentences below.

The line is ☐ cm and ☐ mm long.

The line is ☐ mm long.

VF

12b. Complete the sentences below.

The line is ☐ cm and ☐ mm long.

The line is ☐ mm long.

VF

Varied Fluency – Measure Length – Year 3 Greater Depth

Developing

1a. A = 3cm; B = 4cm; C = 2cm. Allow for slight variations due to printing.
2a. fly = 6mm; cat = 35cm
3a. 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 = 8mm; bus = 11m; book = 15cm
7a. 6cm and 4mm
8a. Answer should be: 4cm and 8mm. 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 98cm; helicopter = 24m and 16cm; calculator = 12cm and 3mm
11a. 3cm and 7mm
12a. Answer should be: 5cm and 9mm; 59mm. Allow for slight variations due to printing.

Developing

1b. A = 20mm; B = 30mm; C = 40mm. Allow for slight variations due to printing.
2b. snake = 80cm; moth = 9mm
3b. 30mm
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 = 16cm
7b. 8cm and 1mm
8b. Answer should be: 5cm and 3mm. 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 84mm; car = 4m and 57cm; wolf = 1m and 43cm
11b. 7cm and 9mm
12b. Answer should be: 6cm and 2mm; 62mm. Allow for slight variations due to printing.

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Varied Fluency – Measure Length ANSWERS