

Varied Fluency

Step 3: Compare Lengths

National Curriculum Objectives:

Mathematics Year 2: (2M1) [Compare and order lengths, mass, volume/capacity and record the results using >, < and =](#)

Mathematics Year 2: (2M2) [Choose and use appropriate standard units to estimate and measure length/height in any direction \(m/cm\); mass \(kg/g\); temperature \(\$^{\circ}\$ C\); capacity \(litres/ml\) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels](#)

Differentiation:

Developing Questions to support comparing 2 lengths; using the same measures (cm to cm or m to m) and numerals only.

Expected Questions to support comparing 3 lengths; using mixed measures (cm and m), numerals and words.

Greater Depth Questions to support comparing 3 lengths; using mixed measures (m and cm and $>100\text{cm}$), numerals and words.

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

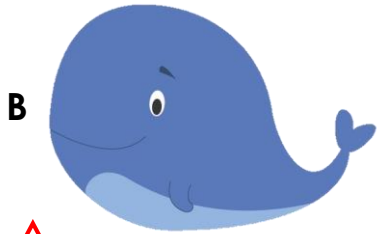
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Compare Lengths

1a. Match the animals to their estimated lengths.



2m



24m



VF

Compare Lengths

1b. Match the animals to their estimated lengths.



2cm



12cm



VF

2a. Arrange the measurements from shortest to longest.

14cm

4cm

16cm



VF

2b. Arrange the measurements from longest to shortest.

2m

25m

5m



VF

3a. Which statement is true?

A. $10\text{m} > 24\text{m}$

B. $5\text{cm} < 15\text{cm}$



VF

3b. Which statement is false?

A. $15\text{cm} < 12\text{cm}$

B. $6\text{m} > 5\text{m}$



VF

4a. Fill in the blanks to make the statements true.

3cm is _____ 5cm

12cm is _____ 6cm

14m is _____ 14 metres

longer than

shorter than

the same as



VF

4b. Fill in the blanks to make the statements true.

8m is _____ 8 metres

26cm is _____ 18cm

19cm is _____ 90cm

longer than

shorter than

the same as



VF

Compare Lengths

5a. Match the animals to their estimated lengths.

A



12cm

B



4cm

C



95cm



VF

Compare Lengths

5b. Match the animals to their estimated lengths.

A



85cm

B



35cm

C



1cm



VF

6a. Arrange the measurements from shortest to longest.

four centimetres

9cm

six centimetres



VF

6b. Arrange the measurements from longest to shortest.

six metres

13 metres

12m



VF

7a. Which statements are false?

A. 21cm > 21m

B. 41cm < 43cm

C. 45m = 45cm



VF

7b. Which statements are false?

A. 12m < 12cm

B. 36 cm < 56cm

C. five metres = 5cm



VF

8a. Fill in the blanks to make the statements true.

6m is _____ 6cm

100cm is _____ 1m

35cm is _____ 35 metres

longer than

shorter than

the same as



VF

8b. Fill in the blanks to make the statements true.

7m is _____ 7cm

15cm is _____ 15m

1m is _____ 100cm

longer than

shorter than

the same as



VF

Compare Lengths

9a. Match the animals to their estimated lengths.

A



four metres

B



20cm

C



40cm



VF

Compare Lengths

9b. Match the animals to their estimated lengths.

A



50cm

B



8 metres

C



two metres



VF

10a. Arrange the measurements from shortest to longest.

153cm

153 metres

90 centimetres



VF

10b. Arrange the measurements from longest to shortest.

67 metres

124cm

124 metres



VF

11a. Which statements are false?

A. 5 metres < 500cm

B. 200cm > 164cm

C. 20 cm = 5cm



VF

11b. Which statements are true?

A. 200cm = 2 metres

B. 120 metres > 120cm

C. 64m < 64cm



VF

12a. Fill in the blanks to make the statements true.



Lucie is 162cm



Daniel is 2m

Daniel is _____

2m is _____ 200 centimetres

the tallest

the shortest

the same as



VF

12b. Fill in the blanks to make the statements true.



Fabian is 186cm



Sadie is 174cm

Sadie is _____

415cm is _____ 450cm

the tallest

the shortest

not the same as



VF

Varied Fluency Compare Lengths

Developing

- 1a. **A = 2m, B = 24m**
- 2a. **4cm; 14cm; 16cm**
- 3a. **B**
- 4a. **shorter than; longer than; the same as**

Expected

- 5a. **A = 12cm, B = 95cm, C = 4cm**
- 6a. **four centimetres; six centimetres; 9cm**
- 7a. **A and C**
- 8a. **longer than; the same as; shorter than**

Greater Depth

- 9a. **A = 40cm, B = 4m, C = 20cm**
- 10a. **90 centimetres; 153cm; 153 metres**
- 11a. **A and C**
- 12a. **the tallest; the same as**

Varied Fluency Compare Lengths

Developing

- 1b. **A = 2cm, B = 12cm**
- 2b. **25m; 5m; 2m**
- 3b. **A**
- 4b. **the same as; longer than, shorter than**

Expected

- 5b. **A = 1cm, B = 85cm, C = 35cm**
- 6b. **13 metres; 12m; six metres**
- 7b. **A and C**
- 8b. **longer than; shorter than; the same as**

Greater Depth

- 9b. **A = 2m, B = 50cm, C = 8m**
- 10b. **124 metres; 67 metres; 124cm**
- 11b. **A and B**
- 12b. **the shortest, not the same as**