

Varied Fluency

Step 4: 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 and 3 Length and Height](#) resources.

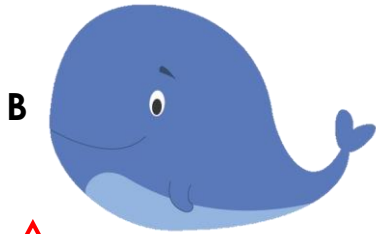
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Compare Lengths

1a. Match the animals to their estimated lengths.



2m



24m



2 VF

Compare Lengths

1b. Match the animals to their estimated lengths.



2cm



12cm



2 VF

2a. Arrange the measurements from shortest to longest.

14cm

4cm

16cm



2 VF

2b. Arrange the measurements from longest to shortest.

2m

25m

5m



2 VF

3a. Which statement is true?

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

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



2 VF

3b. Which statement is false?

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

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



2 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



2 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



2 VF

Compare Lengths

5a. Match the animals to their estimated lengths.

A



12cm

B



4cm

C



95cm



2 VF

Compare Lengths

5b. Match the animals to their estimated lengths.

A



85cm

B



35cm

C



1cm



2 VF

6a. Arrange the measurements from shortest to longest.

four centimetres

9cm

six centimetres



2 VF

6b. Arrange the measurements from longest to shortest.

six metres

13 metres

12m



2 VF

7a. Which statements are false?

A. 21cm > 21m

B. 41cm < 43cm

C. 45m = 45cm



2 VF

7b. Which statements are false?

A. 12m < 12cm

B. 36 cm < 56cm

C. five metres = 5cm



2 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



2 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



2 VF

Compare Lengths

9a. Match the animals to their estimated lengths.

A



four metres

B



20cm

C



40cm



2 VF

Compare Lengths

9b. Match the animals to their estimated lengths.

A



50cm

B



8 metres

C



two metres



2 VF

10a. Arrange the measurements from shortest to longest.

153cm

153 metres

90 centimetres



2 VF

10b. Arrange the measurements from longest to shortest.

67 metres

124cm

124 metres



2 VF

11a. Which statements are false?

A. 5 metres < 500cm

B. 200cm > 164cm

C. 20 cm = 5cm



2 VF

11b. Which statements are true?

A. 200cm = 2 metres

B. 120 metres > 120cm

C. 64m < 64cm



2 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



2 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



2 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**