

# Varied Fluency Compare Lengths

## National Curriculum Objectives:

Mathematics Year 3: (3M1a) Compare lengths (m/cm/mm)

## Differentiation:

**Developing** Questions to support comparing lengths using m, cm and mm. All units are in multiples of 5.

**Expected** Questions to support comparing lengths using m, cm and mm.

**Greater Depth** Questions to support comparing lengths. Includes the use of quarters, halves and three quarters. Some use of unconventional partitioning.

# Compare Lengths

1a. Complete the table to match the statement. Find one possibility.

**Eric > Leo > Jasmine**

Name	Table length
Jasmine	1m 35cm
Eric	1m 70cm
Leo	__m __0cm



VF

1b. Complete the table to match the statement. Find one possibility.

**Albert < Isla < Gita**

Name	Table length
Isla	__0cm
Gita	85cm
Albert	55cm



VF

2a. Three children measure their hats.



**Craig**  
90mm



**Wendy**  
5cm



**Jane**  
80mm

- A. Who has the shortest hat?
- B. Who has the longest hat?
- C. Whose hat is shorter than Jane's?



VF

2b. Three children measure their hats.



**Cheng**  
75mm



**Mia**  
10cm



**Josh**  
80mm

- A. Who has the longest hat?
- B. Who has the shortest hat?
- C. Whose hat is longer than Josh's?



VF

3a. Order the lengths from shortest to longest.

A. 95mm

B. 65cm

C. 60cm



VF

3b. Order the lengths from longest to shortest.

A. 15mm

B. 20mm

C. 5cm



VF

4a. Complete the statement using the measurements below.

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A. 10cm

B. 85mm



VF

4b. Complete the statement using the measurements below.

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A. 1m 25cm

B. 120cm



VF

# Compare Lengths

5a. Complete the table to match the statement. Find one possibility.

**Jacob < Ruby < Fozia**

Name	Ribbon length
Ruby	
Jacob	1m 15cm
Fozia	124cm



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5b. Complete the table to match the statement. Find one possibility.

**Ellie > Ryan > Indy**

Name	Ribbon length
Ellie	8cm 5mm
Ryan	
Indy	73mm



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6a. Three children measure their height.



**Cheng**  
1m 41cm



**Grace**  
138cm



**Oliver**  
120cm

- A. Who is the tallest?
- B. Who is the shortest?
- C. Who is taller than Oliver?



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6b. Three children measure their height.



**Zara**  
125cm



**Farhan**  
1m 31cm



**Lucy**  
118cm

- A. Who is the shortest?
- B. Who is the tallest?
- C. Who is taller than Zara?



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7a. Order the lengths from longest to shortest.

A. 2m 55cm

B. 326cm

C. 2m 94cm



VF

7b. Order the lengths from shortest to longest.

A. 215cm

B. 1m 49cm

C. 2m 21cm



VF

8a. Complete the statement using the measurements below.

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A. 10cm 6mm

B. 112mm

C. 96mm



VF

8b. Complete the statement using the measurements below.

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  > 
 

A. 83mm

B. 4cm 6mm

C. 5cm 9mm



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# Compare Lengths

9a. Complete the table to match the statement. Find one possibility.

**Hammad < Imani < Eva**

Name	String length
Hammad	$2\frac{1}{2}$ m
Eva	398cm
Imani	



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9b. Complete the table to match the statement. Find one possibility.

**Danish < Gigi > Taylor**

Name	String length
Gigi	320mm
Danish	
Taylor	25cm 30mm



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10a. Three children measure their arms.



Wendy  
12cm 4mm



Craig  
118mm



Freya  
10cm 19mm

- Who has the longest arm?
- Who has the shortest arm?
- Whose arm is longer than Freya's?



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10b. Three children measure their arms.



Jane  
180mm



Jamie  
17cm 9mm



Talha  
16cm 11mm

- Who has the shortest arm?
- Who has the longest arm?
- Whose arm is longer than Jamie's?



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11a. Order the lengths from shortest to longest.

A.  $3\frac{3}{4}$  m

B. 3m 180cm

C. 407cm



VF

11b. Order the lengths from longest to shortest.

A. 4m 162cm

B.  $4\frac{3}{4}$  m

C. 558cm



VF

12a. Complete the statement using the measurements below.

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A.  $4\frac{1}{4}$  m

B. 391cm

C. 3m 142cm



VF

12b. Complete the statement using the measurements below.

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A. 237cm

B. 1m 133cm

C.  $1\frac{3}{4}$  m



VF

# Compare Lengths

## Developing

- 1a. Various answers, for example: 1m 40m; 1m 50cm; 1m 60cm.  
2a. A: Wendy; B: Craig; C: Wendy  
3a. A, C, B  
4a.  $B < A$

## Expected

- 5a. Various answers, for example: 117cm; 1m 20cm; 123cm.  
6a. A: Cheng; B: Oliver; C: Grace and Cheng  
7a. B, C, A  
8a.  $C < B > A$  or  $A < B > C$

## Greater Depth

- 9a. Various answers, for example: 2m 153cm; 2m 64cm; 311cm.  
10a. A: Wendy; B: Craig; C: Wendy  
11a. A, C, B  
12a.  $C > A > B$

## Developing

- 1b. Various answers, for example: 60cm; 70cm; 80cm.  
2b. A: Mia; B: Danny; C: Mia  
3b. C, B, A  
4b.  $A > B$

## Expected

- 5b. Various answers, for example: 75mm; 8cm; 81mm  
6b. A: Lucy; B: Farhan; C: Farhan  
7b. B, A, C  
8b.  $A > C > B$

## Greater Depth

- 9b. Various answers, for example: 300mm; 29cm; 31cm 7mm.  
10b. A: Talha; B: Jane; C: Jane  
11b. A, C, B  
12b.  $B < A > C$  or  $C < A > B$