<u>Varied Fluency</u> <u>Step 2: Equivalent Lengths – m and cm</u>

National Curriculum Objectives:

Mathematics Year 3:(3M1a) <u>Compare lengths (m/cm/mm)</u> Mathematics Year 3:(3M2a) <u>Measure lengths (m/cm/mm)</u>

Differentiation:

Developing Questions to support converting from m to cm and vice versa. Lengths in multiples of 10cm. One step questions.

Expected Questions to support converting from m to cm and vice versa. Lengths in increments of 1cm. One step questions.

Greater Depth Questions to support converting from m to cm and vice versa. Lengths in increments of 1cm including the use of 0 as a place holder in the tens column. One and two step questions.

More resources which follow the same small steps as White Rose.

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



Equivalent lengths-m and cm

Equivalent lengths - m and cm



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Varied Fluency – Equivalent Lengths – m and cm – Year 3 Developing

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Equivalent lengths-m and cm

Equivalent lengths – m and cm



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Varied Fluency – Equivalent Lengths – m and cm – Year 3 Expected

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Equivalent lengths – m and cm Equivalent lengths – m and cm

8a. Complete the part whole model		9b. Complete the part whole model	
70. Complete the part whole model.		9b. Complete the part whole model.	
380cm + 205cm m cm		475cm + 225cm m cm	
VF		VF	
10a. Complete the statements with < > or		10b. Complete the statements with < > or	
- 109cm 1m	09m 190cm	- 305cm 3m	50m 357cm
2m 3cm 230	0cm 203cm	4m 70cm 400	7cm 407cm
R	VF	图	VF
11a. Put these lengths in order from shortest to longest.		11b. Put these lengths in order from longest to shortest.	
3m 6cm + 42cm	290cm + 5m 6cm	8m 24cm + 43cm	790cm + 1m 6cm
39cm + 8m 40cm	4m 38cm + 3m	104cm + 7m 5cm	7m 90cm + 2m
VF V			VF
12a. Complete the conversion table:		12b. Complete the conversion table:	
m and cm	cm	m and cm	cm
2m and 4cm		1m and 1cm	
	505cm + 202cm		415cm + 374cm
8m and 07cm		0m and 74cm	
	663cm +224cm		301cm + 99cm
0m and 8cm		6m and 3 cm	
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Varied Fluency – Equivalent Lengths – m and cm – Year 3 Greater Depth

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Varied Fluency Equivalent lengths-m and cm

Developing

1a. 2m 90cm. 2a. =,> 3a. 230cm, 2m 90cm, 3m 20cm, 390cm 4a. 240cm, 4m 10cm, 870cm, 9m 90cm, 90cm

Expected

5a. 3m 87cm 6a. <, < and =, > 7a. 239cm, 2m 93cm, 3m 29cm, 392cm 8a. 241cm, 4m 15cm, 874cm, 9m 99cm, 98cm

<u>Greater Depth</u>

9a. 5m 85cm 10a. =,< and <,> 11a. 1. 3m 6cm + 42cm = 3m 48cm 2. 4m 38cm = 3m = 7m 38cm

- 3. 290cm + 5m 6cm = 7m 96cm
- 4. 39cm +8m 40cm = 8m 79cm
- 12a. 204cm, 7m 7cm, 807cm, 8m 87cm,8cm

Varied Fluency Equivalent lengths-m and cm

Developing

1b. 3m 70cm 2b. <,< 3b. 5m 90cm, 580cm, 570cm, 5m 60cm 4b. 320cm, 1m 60cm, 550cm, 6m 30cm, 780cm

Expected

5b. 5m 75cm 6b. >,> and =,> 7b. 577cm, 5m 76cm, 5m 67cm, 566cm 8b. 81cm, 5m 64cm, 396cm, 0m 82cm, 836cm

Greater Depth

9b. 7m 0cm

10b. <,< and <,>

- 11b. 1. 7m 90cm + 2m = 9m 90cm
 - 2. 790cm + 1m 6cm = 8m 96cm
 - 3. 8m 24cm + 43cm = 8m 67cm
 - 4. 104cm + 7m 5cm = 8m 9cm
- 12b. 101cm, 7m 89cm, 74cm, 4m, 603cm



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Varied Fluency – Equivalent Lengths – m and cm ANSWERS