

Varied Fluency

Step 2: Equivalent Lengths – m and cm

National Curriculum Objectives:

Mathematics Year 3:(3M1a) [Compare lengths \(m/cm/mm\)](#)

Mathematics Year 3:(3M2a) [Measure lengths \(m/cm/mm\)](#)

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.

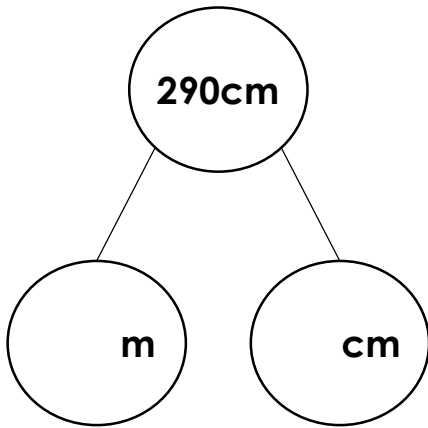
[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

Equivalent lengths – m and cm

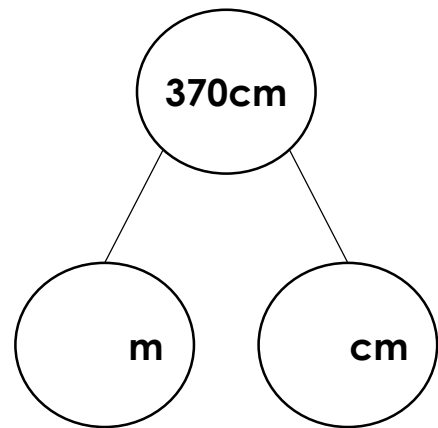
Equivalent lengths – m and cm

1a. Complete the part whole model.



3 VF

1b. Complete the part whole model.



3 VF

2a. Complete the statements with < > or =

400cm 4m 0cm

8m 30cm 820cm



3 VF

2b. Complete the statements with < > or =

630cm 6m 70cm

5m 30cm 540cm



3 VF

3a. Put these lengths in order from shortest to longest.

3m 20cm 230cm

390cm 2m 90cm



3 VF

3b. Put these lengths in order from longest to shortest.

5m 60cm 570cm

580cm 5m 90cm



3 VF

4a. Complete the conversion table:

m and cm	↔	cm
2m and 40cm		
		410cm
8m and 70cm		
		990cm
0m and 90cm		



3 VF

4b. Complete the conversion table:

m and cm	↔	cm
3m and 20cm		
		160cm
5m and 50cm		
		630cm
7m and 80cm		

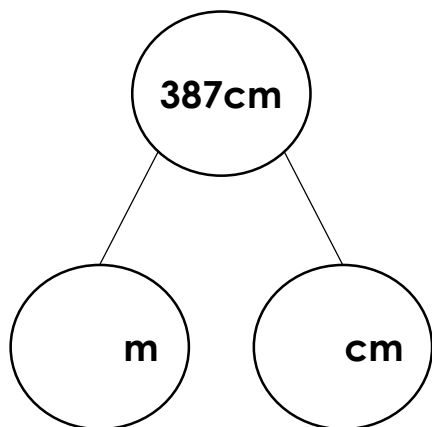


3 VF

Equivalent lengths – m and cm

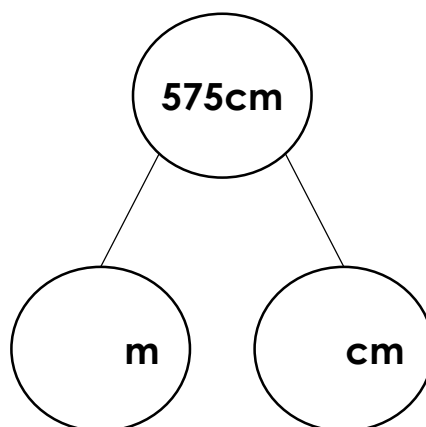
Equivalent lengths – m and cm

5a. Complete the part whole model.



3 VF

5b. Complete the part whole model.



3 VF

6a. Complete the statements with < > or =

120cm 1m 25cm 152cm

2m 32cm 232cm 223cm



3 VF

6b. Complete the statements with < > or =

395cm 3m 59cm 358cm

4m 72cm 472cm 427cm



3 VF

7a. Put these lengths in order from shortest to longest.

3m 29cm 239cm

392cm 2m 93cm



3 VF

7b. Put these lengths in order from longest to shortest.

5m 67cm 566cm

577cm 5m 76cm



3 VF

8a. Complete the conversion table:

m and cm	↔	cm
2m and 41cm		
		415cm
8m and 74cm		
		999cm
0m and 98cm		



3 VF

8b. Complete the conversion table:

m and cm	↔	cm
0m and 81cm		
		564cm
3m and 96cm		
		82cm
8m and 36cm		

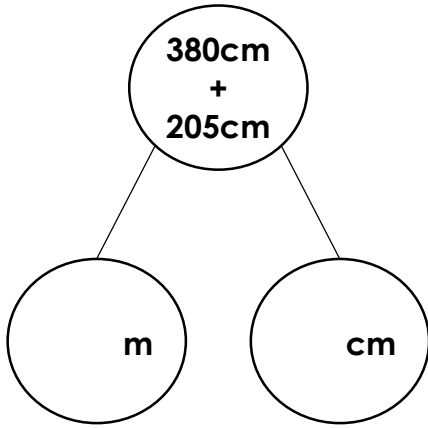


3 VF

Equivalent lengths – m and cm

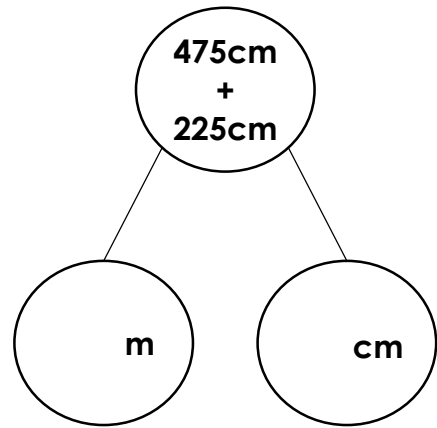
Equivalent lengths – m and cm

9a. Complete the part whole model.



3 VF

9b. Complete the part whole model.



3 VF

10a. Complete the statements with < > or =

109cm 1m 09cm 190cm

2m 3cm 230cm 203cm



3 VF

10b. Complete the statements with < > or =

305cm 3m 50cm 357cm

4m 70cm 4007cm 407cm



3 VF

11a. Put these lengths in order from shortest to longest.

3m 6cm + 42cm	290cm + 5m 6cm	8m 24cm + 43cm	790cm + 1m 6cm
39cm + 8m 40cm	4m 38cm + 3m	104cm + 7m 5cm	7m 90cm + 2m



3 VF



3 VF

12a. Complete the conversion table:

m and cm	↔	cm
2m and 4cm		
		505cm + 202cm
8m and 07cm		
		663cm + 224cm
0m and 8cm		



3 VF

12b. Complete the conversion table:

m and cm	↔	cm
1m and 1cm		
		415cm + 374cm
0m and 74cm		
		301cm + 99cm
6m and 3 cm		



3 VF

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

Greater Depth

- 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