

Varied Fluency

Step 6: Subtracting Lengths

National Curriculum Objectives:

Mathematics Year 3: (3M9b) [Add and subtract lengths \(m/ cm/ mm\)](#)

Differentiation:

Developing Questions to support subtracting one length from a given length using some mixed units. Subtractions do not involve exchanges. Lengths are in multiples of 5.

Expected Questions to support subtracting lengths from a given length, including using some mixed units with only one conversion. Includes some use of one half.

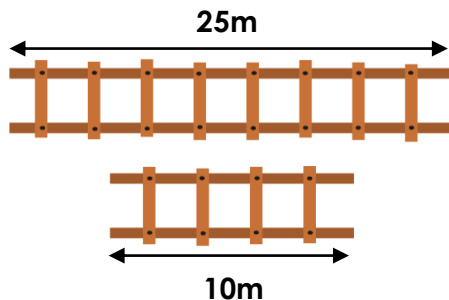
Greater Depth Questions to support subtracting lengths from a given length using mixed units with mixed conversions. Includes use of one quarter, one half and three quarters.

More [Year 3 Length and Perimeter](#) resources.

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

Subtracting Lengths

1a. What is the difference in length of the following items?



- A. 15cm B. 15m C. 10m

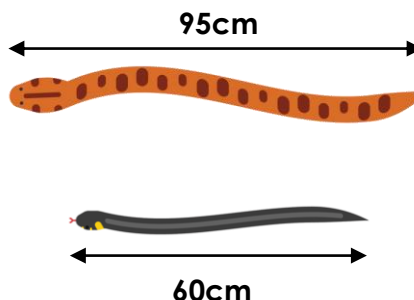


Not drawn to scale

VF

Subtracting Lengths

1b. What is the difference in length of the following items?



- A. 35cm B. 25cm C. 45cm



Not drawn to scale

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2a. Terry is wrapping some presents with string.

He has 185cm of string.



I have used 60cm of string.

How much string will he have left?



VF

2b. Jen is making a model from a piece of wood.

The piece of wood is 250mm long.



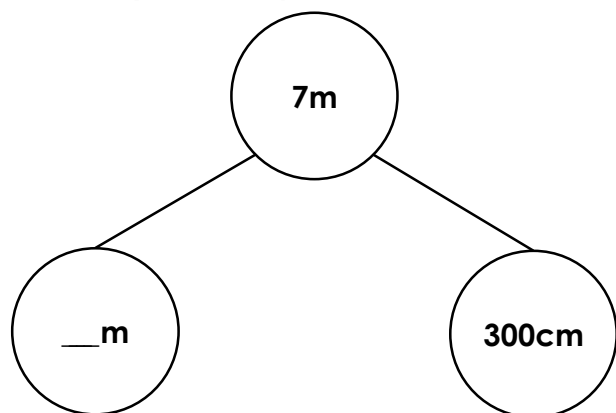
I've used 12cm of wood.

How much wood will she have left?



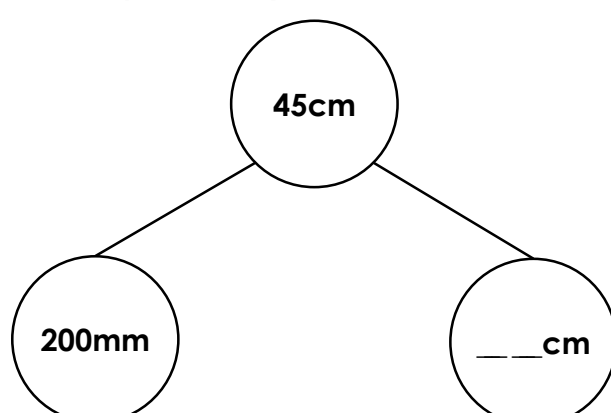
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3a. Complete the part-whole model.



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3b. Complete the part-whole model.



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4a. Add <, > or = to make the statement correct.

2m and 65cm - 45cm 2m and 15cm - 5cm



VF

4b. Add <, > or = to make the statement correct.

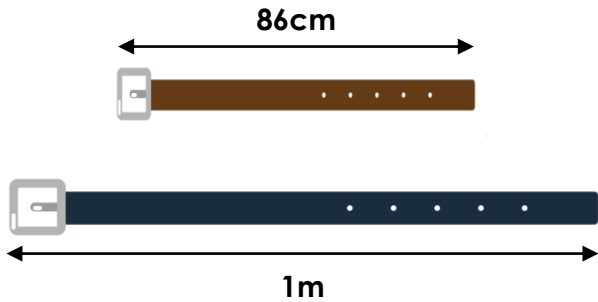
345cm - 210mm 585cm - 230cm



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Subtracting Lengths

5a. What is the difference in length of the following items?



- A. 141mm B. 41cm C. 14cm

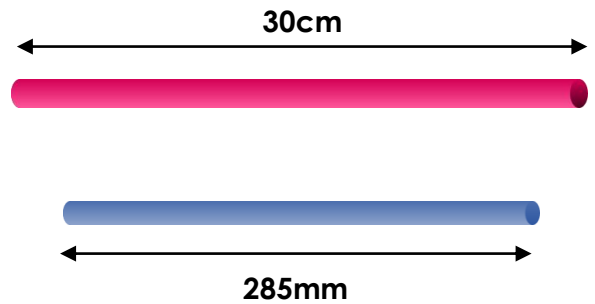


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Subtracting Lengths

5b. What is the difference in length of the following items?



- A. 25mm B. 15mm C. 15cm



Not drawn to scale

VF

6a. Mara and Hari are placing ribbon around their cake bases.

They start with 2m of ribbon.



Mara

I've used 810mm of ribbon.



Hari

I have used 1m of ribbon.

How much ribbon will they have left?



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6b. Josh and Tom are using a spool of thread to make kites.

They start with 9m of thread.



Josh

I've used 500cm of thread.



Tom

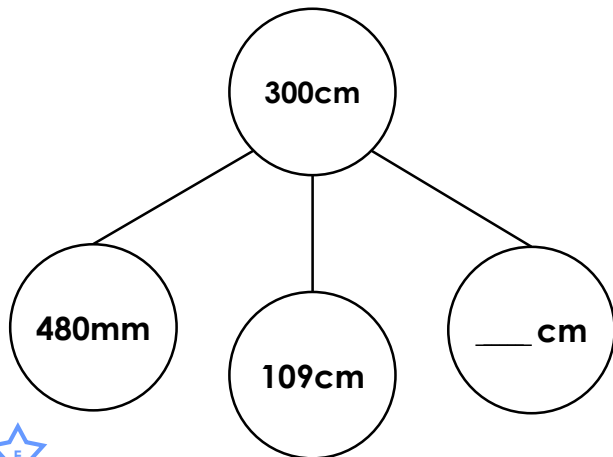
I used 3m and 58cm of thread.

How much thread will they have left?



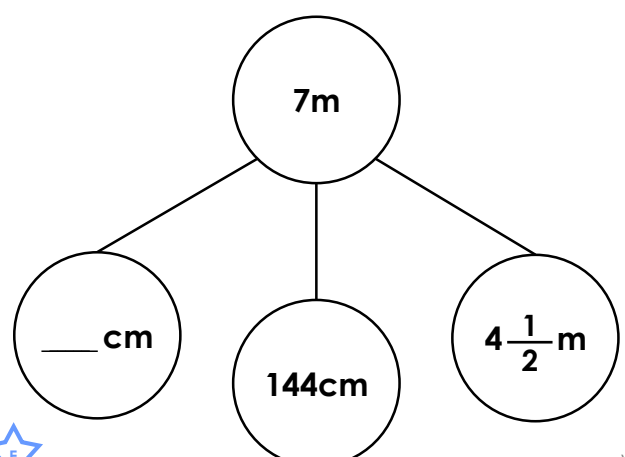
VF

7a. Complete the part-whole model.



VF

7b. Complete the part-whole model.



VF

8a. Add <, > or = to make the statement correct.

7m and 18cm – 110cm 658cm – 440mm



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8b. Add <, > or = to make the statement correct.

994cm – 6m and 80cm 3m and 62cm – 51cm



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Subtracting Lengths

9a. What is the difference in length of the following items?

8m and 72cm



$5\frac{1}{2}$ m

A. 323cm B. 232cm C. 322cm



Not drawn to scale

VF

Subtracting Lengths

9b. What is the difference in length of the following items?

683cm



$2\frac{1}{4}$ m

A. 458cm B. 469cm C. 485mm



Not drawn to scale

VF

10a. Three children are knitting scarves.

Each scarf needs $4\frac{3}{4}$ m of wool.



Henna

We have 4 balls of wool.

Each ball has 425cm of wool.



Jack

How much spare wool will they have?



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10b. Six children are wallpapering a wall each.

They will need 152cm for each wall.



Shaun

We have 3 rolls of wallpaper.

Each roll is $3\frac{1}{4}$ m long.



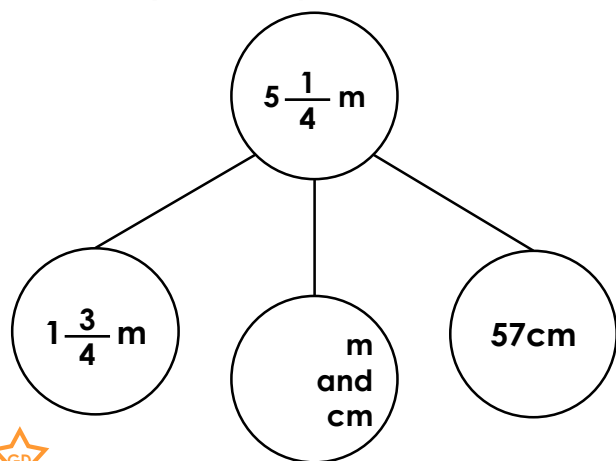
Betsy

How much wallpaper will they have left?



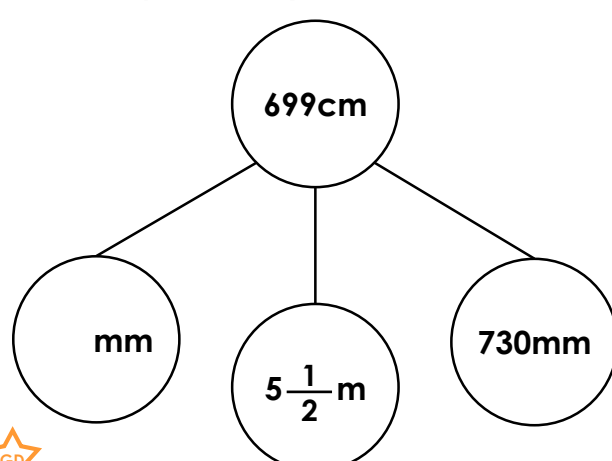
VF

11a. Complete the part-whole model.



VF

11b. Complete the part-whole model.



VF

12a. Add <, > or = to make the statement correct.

541cm - 370mm



612cm - 990mm



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12b. Add <, > or = to make the statement correct.

7m and 33cm - 129cm



$6\frac{3}{4}$ m - 1m and 8cm



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Varied Fluency Subtracting Lengths

Developing

- 1a. **B. 15m**
- 2a. **1m and 25cm or 125cm of string left.**
- 3a. **4m**
- 4a. **220cm > 210cm**

Expected

- 5a. **C. 14cm**
- 6a. **19cm or 190mm of ribbon left.**
- 7a. **143cm**
- 8a. **608cm < 614cm**

Greater Depth

- 9a. **C. 322cm**
- 10a. **$2\frac{3}{4}$ m of wool left over.**
- 11a. **2m and 93cm**
- 12a. **504cm < 513cm**

Varied Fluency Subtracting Lengths

Developing

- 1b. **A. 35cm**
- 2b. **130mm or 13cm of wood left.**
- 3b. **25cm**
- 4b. **324cm < 355cm**

Expected

- 5b. **B. 15mm**
- 6b. **42cm of thread left.**
- 7b. **106cm**
- 8b. **314cm > 311cm**

Greater Depth

- 9b. **A. 458cm**
- 10b. **63cm of wallpaper left over.**
- 11b. **760mm**
- 12b. **604cm > 567cm**