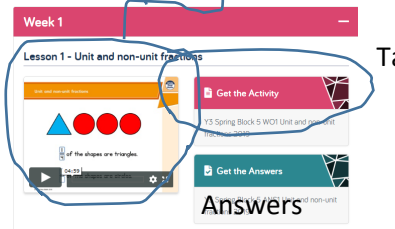
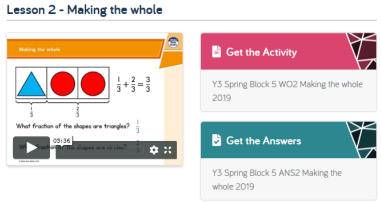
**Maths Planning and Ideas**

**Week Commencing: 30th March 2020**

**Year Group: Year 3**

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| **Area of Learning** | LC: Can you subtract lengths? | LC: Can you measure perimeter? | LC: Can you calculate perimeter? | LC: | LC: |
| **Activity** | **Starter:**<br>Times Table Rockstars<br><br>Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group.<br><br>**Main:**<br>Key questions to discuss with the children:<br><br>What is the difference between the length of the two objects? How would you work it out? How are Alex's models different? How are they the same?<br>Which model do you prefer? Why? | **Starter:**<br>Times Table Rockstars<br><br>Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group.<br><br>**Main:**<br>Watch the video below then ask the key questions<br>**https://www.bbc.co.uk/teach/skillswise/perimeter/zkpxkmn**<br><br>What is perimeter?<br>Which shape do you predict will have the longest perimeter?<br>Does it matter where you start when you measure the length of the perimeter? | **Starter:**<br>Times Table Rockstars<br><br>Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group.<br><br>**Main:**<br>Key questions to discuss with the children:<br><br>How can we calculate the perimeter of each shape?<br>Can we calculate the perimeter using a different method?<br>What is the same about the two methods?What is different? | **Starter:**<br>Times Table Rockstars<br><br>Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group.<br><br>**Main:**<br>Go to the following website<br>**https://whiterosemaths.com/homelearning/year-3/**<br><br>Select week one lesson one on unit and non-fractions<br>Watch the video<br>  <br>Task<br>Answers<br>Can be found here. | **Starter:**<br>Times Table Rockstars<br><br>Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group.<br><br>**Main:**<br>Go to the following website<br>**https://whiterosemaths.com/homelearning/year-3/**<br><br>Select week one lesson two making the whole<br>Watch the video<br>  |

| | | | | | |
|---|---|---|---|---|---|
| | What is the most efficient way to subtract mixed units?<br><br>**Independent Task:**<br>The questions below the plan can be completed by children independently. | Can you mark the place where you start and finish measuring?<br>Do you need to measure all the sides of a rectangle to find the perimeter? Explain why.<br><br>**Independent Task:**<br>See perimeter play. | How can we work out the length of the missing side? What other information do we know about the rectangle? Can we write on the lengths of all the sides?<br><br>**Independent task:**<br>Calculate perimeter worksheet | **Independent Task:**<br>Children to complete activity. | |

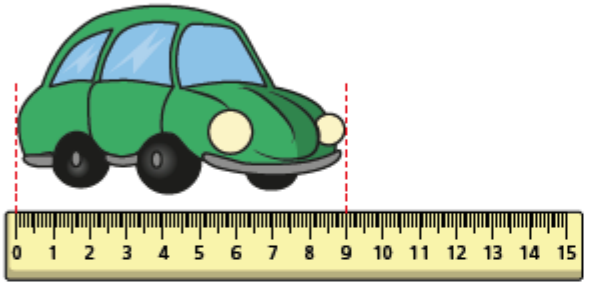
## Supporting Resources for Maths

## Monday 30th March

## LC: Can you subtract lengths?

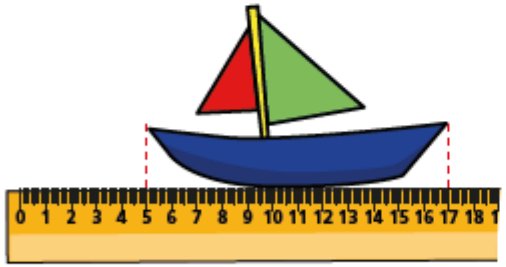
1 Complete the sentences to describe the lengths of the objects.

a)




The toy car is ☐ mm long.

b)




The toy boat is ☐ cm long.

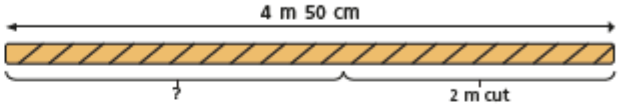
c) The toy boat is ☐ cm longer than the toy car.

The toy car is ☐ mm shorter than the toy boat.

2 Jack's rope is 4 m 50 cm long.

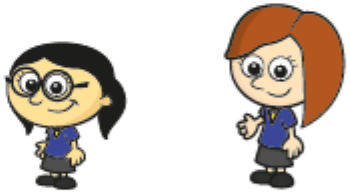
He uses 2 m to make a swing.

How long is his rope now?




Jack's rope is now ☐ m and ☐ cm long.

3 Tommy, Rosie and Annie each measure their height.



| Annie | Rosie<br>135 cm | Tommy<br>1 m 15 cm |
|---|---|---|

a) What is the difference in height between Tommy and Rosie?

☐

b) Annie is 30 mm shorter than Rosie. What is Annie's height?

☐

4 Nijah buys 5 m of ribbon.

She uses 78 cm of the ribbon to decorate a bag.

How much ribbon does she have left?

☐ m and ☐ cm

5 Complete the number sentences.

a) 2 m – 50 cm = ☐ cm

b) 85 mm – 2 cm = ☐ mm

c) 9 cm 5 mm – 20 mm = ☐ cm and ☐ mm

d) 100 mm – ☐ cm = 6 cm

6 Huan has a 10 m ball of string.

He uses 50 cm to replace his shoelace.

He uses some more of his string to make a bow for his arrows.

He has 7 m and 45 cm of string left.

How much string did Huan use to make his bow?

☐ m and ☐ cm

7 Fill in the empty boxes so that each row and column adds up to 2 m.

| | | |
|---|---|---|
| 50 cm | | 50 cm |
| 1 m 15 cm | | |
| | 85 cm | |

Talk about what you did with a partner.

Are your answers the same?

Create your own problem like this using a different total.

Ask a partner to find the answer.

| | | |
|---|---|---|
| | | |
| | | |
| | | |

**Tuesday 31st March 2020**

## Perimeter play

Find a tape measure or ruler.

(if you don't have one, you can make a piece of string marked in centimetres)

Look around the room, find 5 objects that you think have a similar perimeter.

You could choose a picture, a book, a cushion, a small table and a TV.

Measure the perimeter of each object – were you correct?

Can you find something with a perimeter of 60cm?

Select an item. Can you find something that is a different shape with double its perimeter?

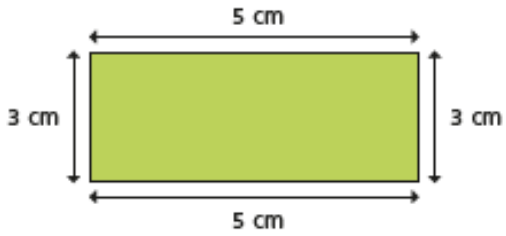
Can you estimate the perimeter of an object and then measure it. How close were you?

How could you measure the perimeter of a room in your home?

**Wednesday 1st April**

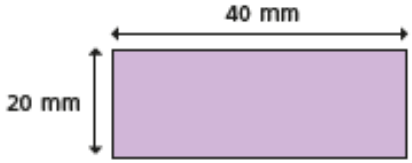
1 Work out the perimeter of each shape.

a)



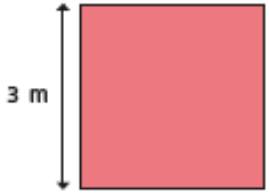

perimeter = ☐ cm

b)



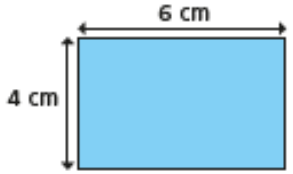

perimeter = ☐ mm

c)




perimeter = ☐ m

2 Rosie and Eva work out the perimeter of the shape below.




6 + 4 = 10, so the perimeter is 10 cm.

Rosie

The perimeter is 20 cm.

Eva

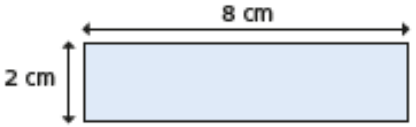
Who is correct? _____

How do you know?

_____

_____

3 Tick the shapes with a perimeter of 16 cm.

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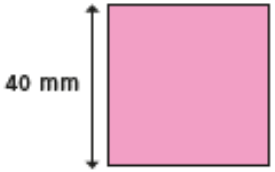


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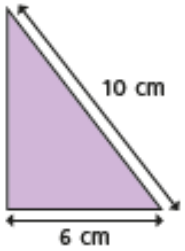


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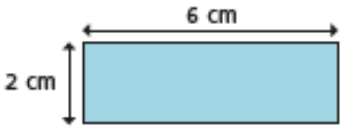


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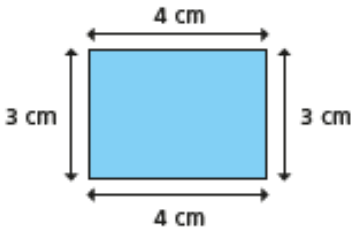
4 Which shape has the longest perimeter? Tick your answer.

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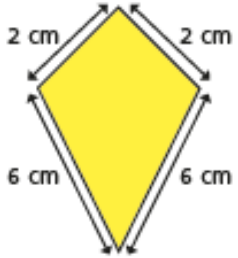


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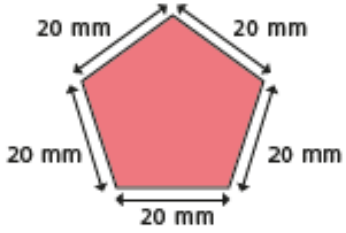
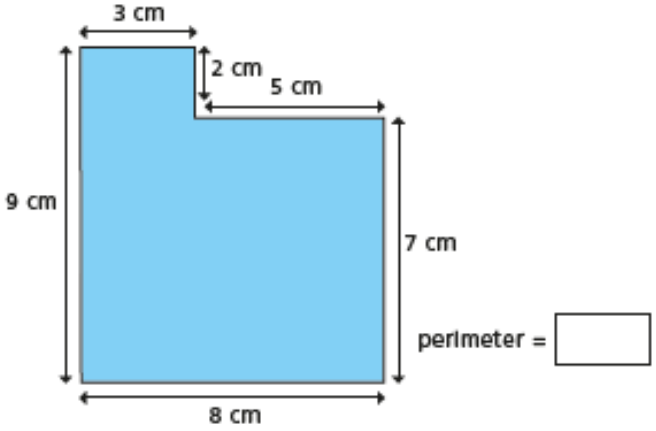



☐

Show all your workings.

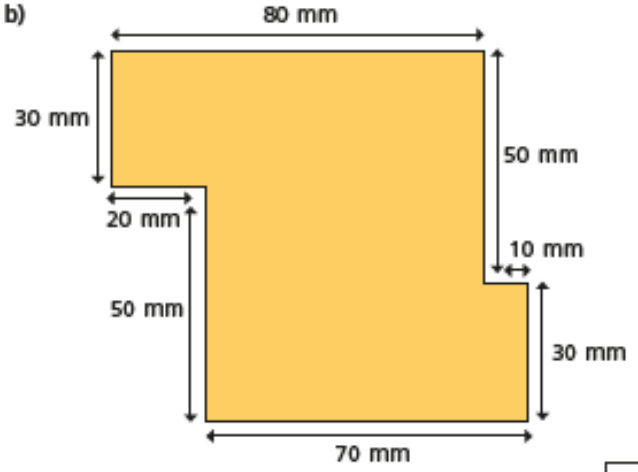
5 Work out the perimeter of these shapes.

a)




perimeter = ☐

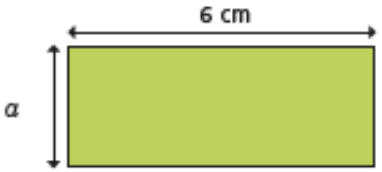
b)




perimeter = ☐

What do you notice?

6 This rectangle has a perimeter of 18 cm.
Work out the length of side $a$.




perimeter = 18 cm

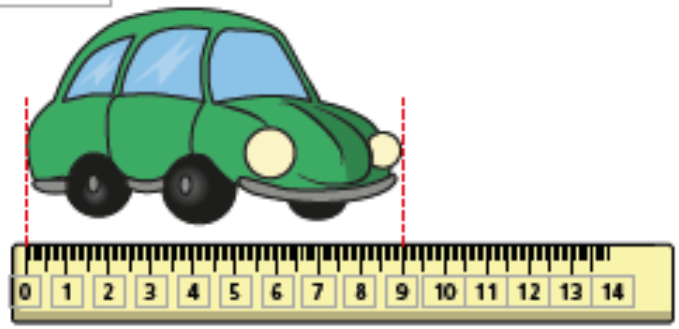
side $a$ = ☐

**Answers**

**Monday 30th March 2020**

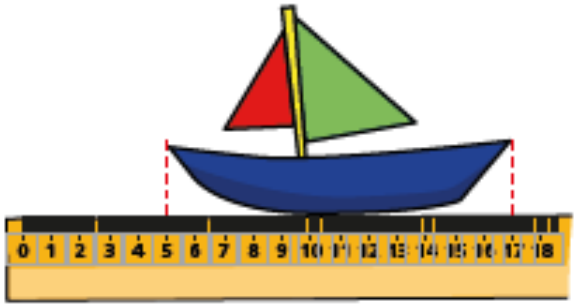
1 Complete the sentences to describe the lengths of the objects.

a)




The toy car is 90 mm long.

b)




The toy boat is 12 cm long.

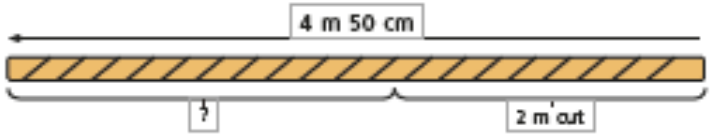
c) The toy boat is 3 cm longer than the toy car.

The toy car is 30 mm shorter than the toy boat.

2 Jack's rope is 4 m 50 cm long.

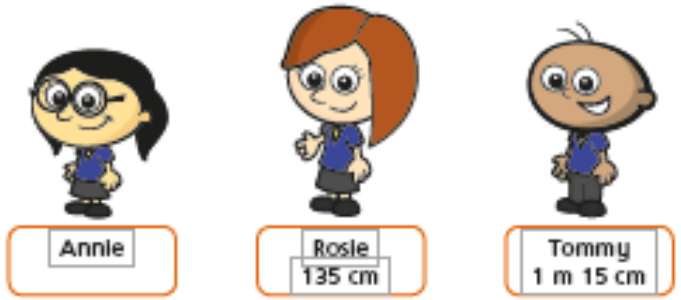
He uses 2 m to make a swing.

How long is his rope now?




Jack's rope is now 2 m and 50 cm long.

3 Tommy, Rosie and Annie each measure their height.




a) What is the difference in height between Tommy and Rosie?

20 cm

b) Annie is 30 mm shorter than Rosie. What is Annie's height?

132 cm

4 Nijah buys 5 m of ribbon.

She uses 78 cm of the ribbon to decorate a bag.

How much ribbon does she have left?

4 m and 22 cm

5 Complete the number sentences.

a) 2 m – 50 cm = 150 cm

b) 85 mm – 2 cm = 65 mm

c) 9 cm 5 mm – 20 mm = 7 cm and 5 mm

d) 100 mm – 4 cm = 6 cm

6 Huan has a 10 m ball of string.

He uses 50 cm to replace his shoelace.

He uses some more of his string to make a bow for his arrows.

He has 7 m and 45 cm of string left.

How much string did Huan use to make his bow?

2 m and 5 cm

7 Fill in the empty boxes so that each row and column adds up to 2 m.

| | | |
|---|---|---|
| 50 cm | 1m | 50 cm |
| 1 m 15 cm | 15cm | 70cm |
| 35cm | 85 cm | 80cm |

Talk about what you did with a partner.

Are your answers the same?

Create your own problem like this using a different total.

Ask a partner to find the answer.

| | | |
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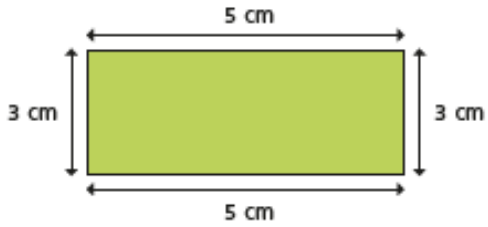
**Wednesday 1st April 2020**

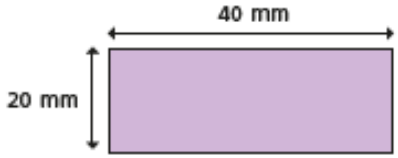
1 Work out the perimeter of each shape.

a)



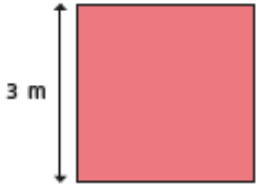

perimeter = 16 cm

b)



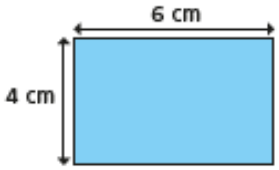

perimeter = 120 mm

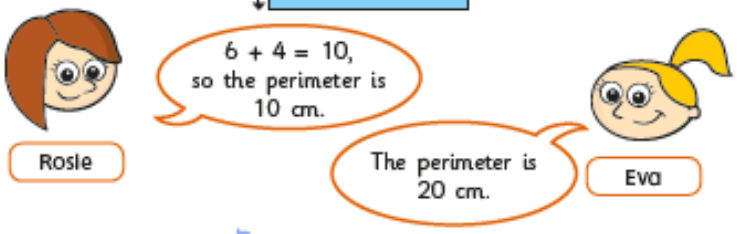
c)




perimeter = 12 m

2 Rosie and Eva work out the perimeter of the shape below.



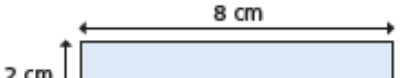




Who is correct? Eva

How do you know?

Rosie hasn't included the other two sides.

3 Tick the shapes with a perimeter of 16 cm.

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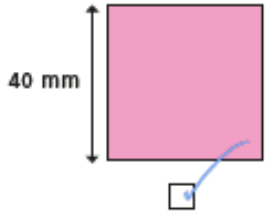


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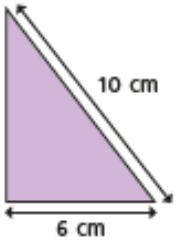


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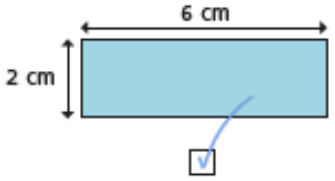


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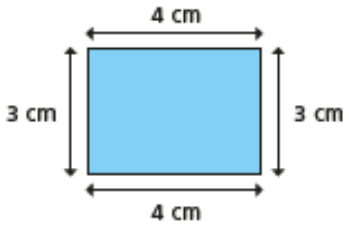
4 Which shape has the longest perimeter? Tick your answer.

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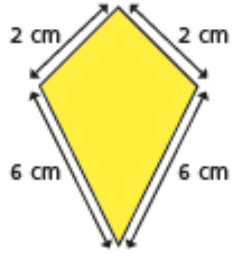


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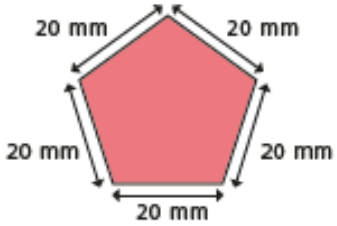


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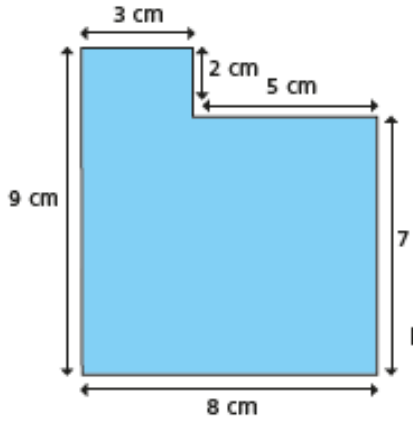
Show all your workings.

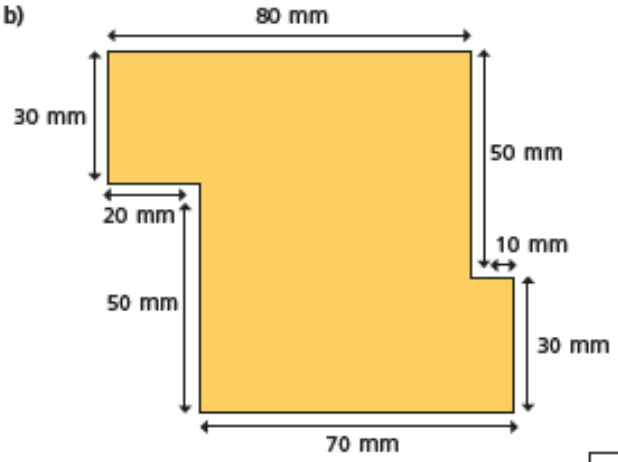
5 Work out the perimeter of these shapes.

a)




perimeter = 34cm

b)

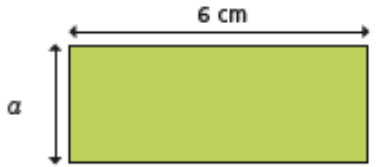



perimeter = 340mm

What do you notice?

6 This rectangle has a perimeter of 18 cm.

Work out the length of side $a$.




perimeter = 18 cm

side $a$ = 3 cm

## Where can I complete further work?

Twinkl – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

Classroom Secrets – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

Primary Stars – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

Top Marks – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.