# Maths Support Pack – Week 11

This pack includes your 3 maths lessons for the week. The pack includes:

- ✓ Maths starters to keep your brains working fast!
- ✓ 3 maths lessons
- ✓ Links to online lessons for Lesson 1 and 2
- ✓ Worksheets and answer sheets
- ✓ Extension Task

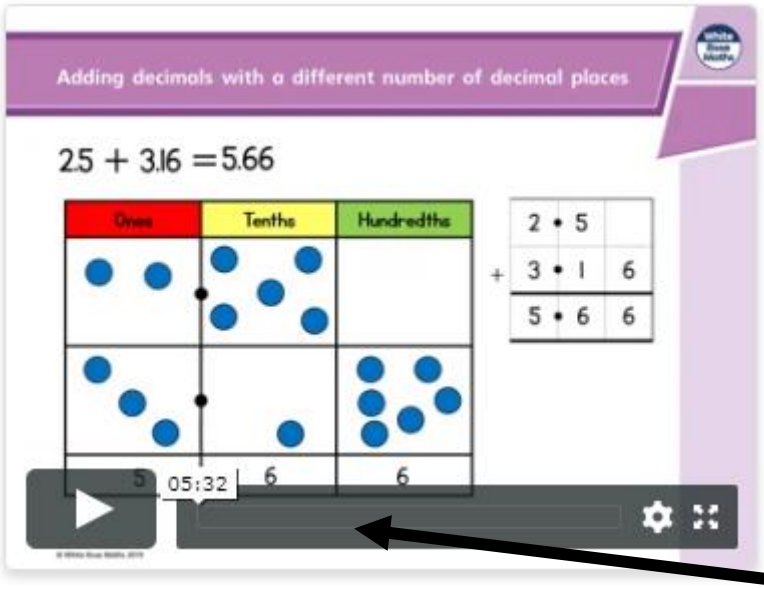
This pack is to help you, so read through as carefully as possible so that you know what to do for your maths this week. In week 9, we are focusing on Adding and Subtracting Decimals with a different number of decimal places. Try your best with everything. Happy Learning Year 5! ☺

## Lesson 1 – Teach and Practise – Calculate Perimeter

**Starter – Hit the Button**

https://www.topmarks.co.uk/maths-games/hit-the-button.

**Input** – Open this link: https://whiterosemaths.com/homelearning/year-5/ Summer Term, Week 3, w/c 4th May, Lesson 4




**Online video**

**If you struggle with any of the questions, just go back and rewatch the video to check you are happy. Once you have finished, open the answers document to check your work.**

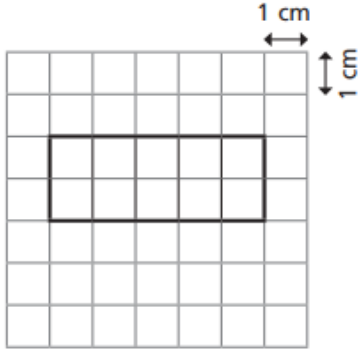
**Activity:** Complete the questions that are below. Watch the video for this lesson as many times as you need to. It's there to help you!

# Calculate perimeter

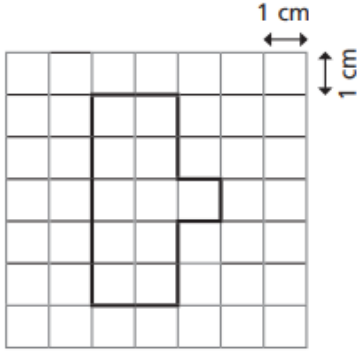
White Rose Maths

**1** Calculate the perimeter of each shape.

a)




c)

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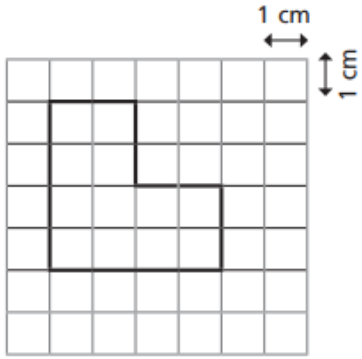


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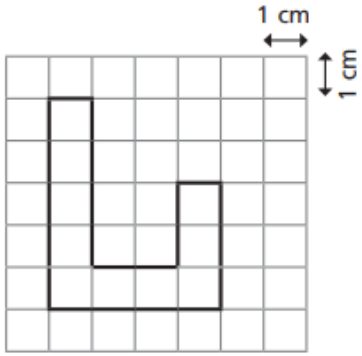
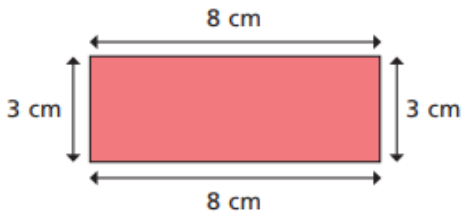
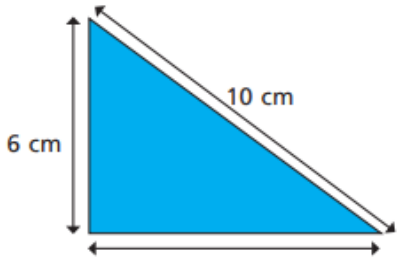



**2** Calculate the perimeter of these shapes.

a)

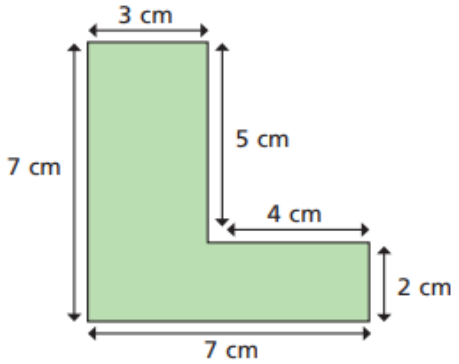



b)

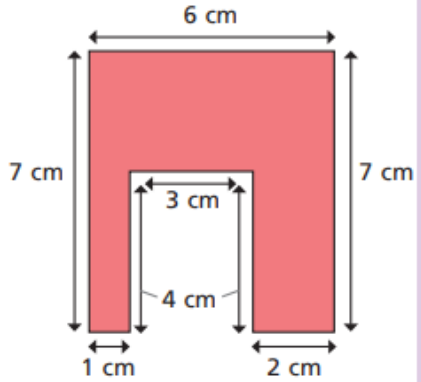



**3** Calculate the perimeter of these shapes.

a)

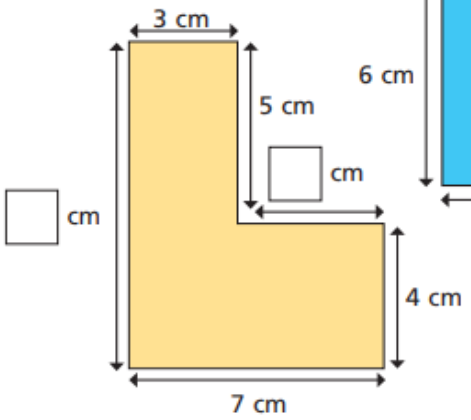



b)

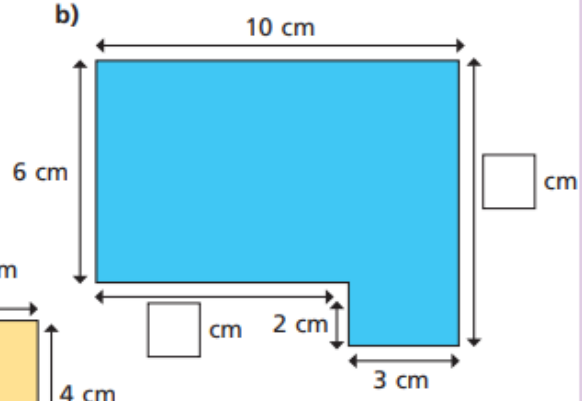


**4** Work out the missing lengths on these shapes.

**a)**



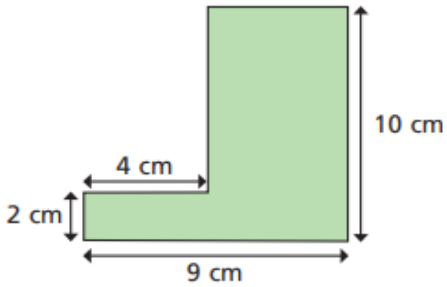

**b)**



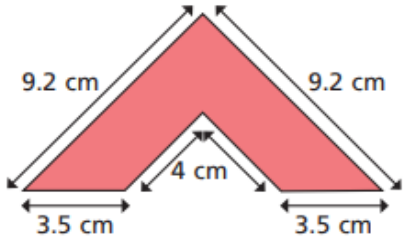

Discuss with a partner how you worked them out.

**5** Calculate the perimeter of these shapes.

**a)**

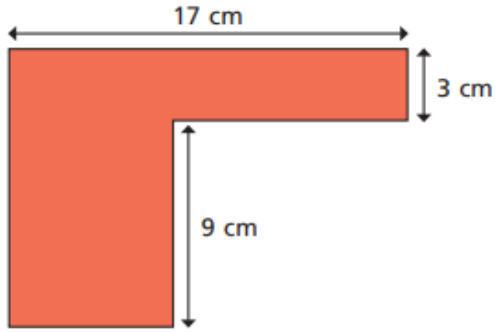



**b)**




**6** Mo thinks that there is not enough information to calculate the perimeter of the shape.

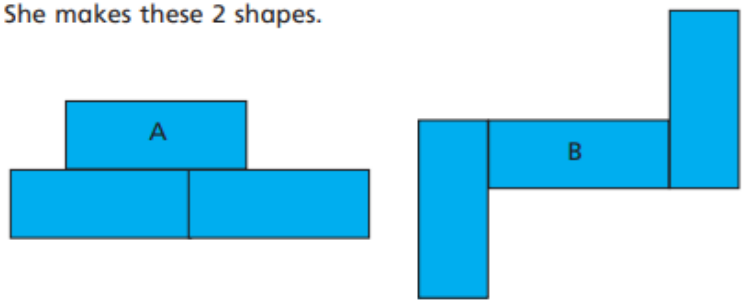
Is he correct? How do you know?




**7** Rosie is making shapes made up of 3 rectangles.

Each rectangle has a length of 10 cm and a width of 4 cm.

She makes these 2 shapes.



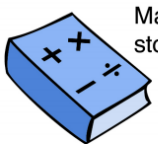

**a)** Which shape has the greatest perimeter? _____

**b)** What other shapes can you make with 3 rectangles?

What is the perimeter of the shapes?

# Lesson 2 – Target Maths- Area and Perimeter

**Starter – Create a maths story about the picture below. It would be brilliant if you could link it to area or perimeter! Write it down or draw it out to show me!**




**Activity:** Complete the questions that are below. Watch the video for this lesson as many times as you need to. It's there to help you!

# AREA AND PERIMETER 1

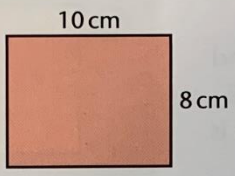


## TARGET To calculate the area and perimeter of squares and rectangles.

The area of a shape is the amount of surface it covers.
The perimeter of a shape is the distance around its edges.

***Example***

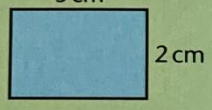
Perimeter = (length + width) × 2
= 18cm × 2
= 36 cm

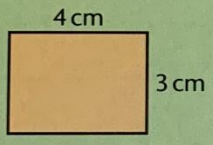


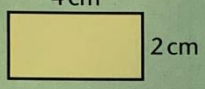

Area = length × width
= (10 × 8) cm²
= 80 cm²

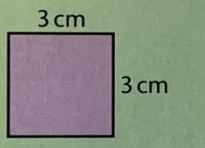
### A

Use 1 cm² paper. Copy the shapes.
Give the area and perimeter of each shape.

1. 


2. 


3. 

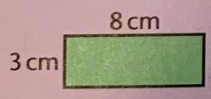

4. 

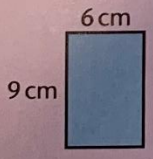

For each of these shapes work out:
**a)** the area **b)** the perimeter

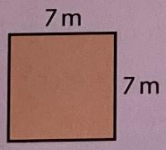
5. rectangle sides 5 cm 3 cm
6. square sides 4 cm
7. rectangle sides 7 cm 2 cm
8. square sides 5 cm
9. rectangle sides 10 cm 2 cm
10. rectangle sides 6 cm 4 cm

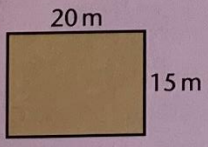
### B

Give the area and perimeter of each shape.

1. 


2. 


3. 


4. 


For each shape work out:
**a)** the area **b)** the perimeter

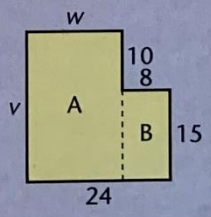
5. rectangle sides 8 cm 6 cm
6. rectangle sides 5 m 17 m
7. square sides 12 cm
8. rectangle sides 15 m 3 m
9. A rectangular field is 80 m long and 50 m wide. Find its area and perimeter.

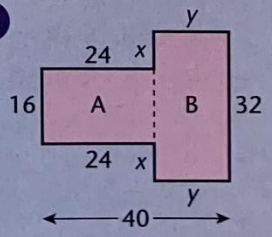
### C

1. Copy and complete the table.

| Length (cm) | Width (cm) | Perimeter (cm) | Area (cm²) |
|---|---|---|---|
| 8 | 5 | | |
| | 4 | 34 | |
| 12 | | | 84 |
| 9 | | 36 | |
| | 5 | | 100 |

For each of the following shapes find:
**a)** the perimeter (cm) **b)** the area (cm²).

2. 


3. 

# Lesson 3 –

**Starter – Mental Maths Test Practise**

Answer these 10 questions - these are all things you know! It'll help to train your brain back to being able to answer those quick-fire questions! You can either read them yourself or ask someone to test you.

1. What is 900 times 7?
2. Divide 164.5 by 100.
3. Write 964 in Roman numerals.
4. What needs to be added to 0.63 to make 1?
5. Find the highest common factor of 30 and 75.
6. Add 283 and 76.
7. Lee spends £3.57. He pays £10. How much change is given?
8. Write 508 037 in words.
9. Which number multiplied by 12 makes 840?
10. There are 32 chess pieces. Three eights have been taken. How many pieces are left on the board?

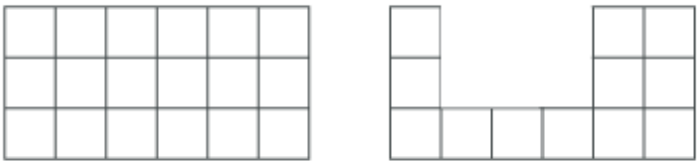
**Activity: Complete the challenge activity from NRich maths. The link is below in case you want to look at it online!**

https://nrich.maths.org/7280

# Area and Perimeter

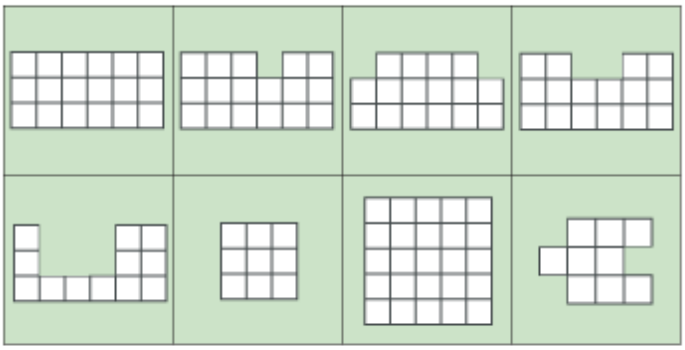
**Age 7 to 11** ★

What can you say about these two shapes?



What is the area of each one? What is the perimeter of each one?

What can you say about the shapes below?



You can print out a set of shapes and cut them into separate cards. These cards have the coloured background.

Can you draw a shape in which the area is numerically equal to its perimeter?
And another?
Can you draw a shape in which the perimeter is numerically twice the area?
Can you draw a shape in which the area is numerically twice the perimeter?
Can you make the area of your shape go up but the perimeter go down?
Can you make the perimeter of your shape go up but the area go down?

Can you draw some shapes that have the same area but different perimeters?
Can you draw some shapes that have the same perimeter but different areas?

Well done for working your way through your Maths Worksheets. I can't wait to see how well you've done! Don't forget to check all your work against the answers! If you would like an extra challenge, have a go at the extension questions below!

## Extension Task

Can you make a rectangular or square shape using household objects?

Estimate what you think the lengths of the sides will be, the perimeter and the area. Then measure them to see if you are right!