Maths - Year 4
Summer Term, Week 4 (w/c 11th May)

Lesson 2
Perimeter of rectangles

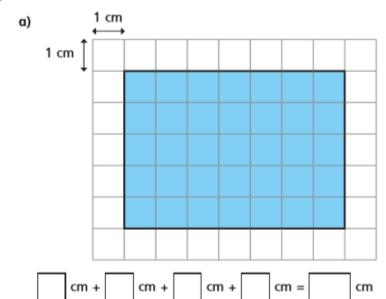
Please watch the video before starting the questions.

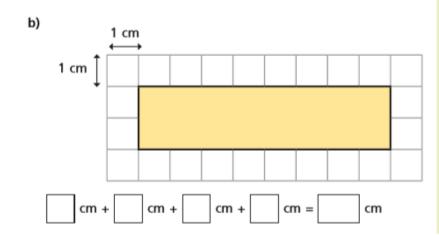
I have not divided this work into challenges. Please work your way through the questions and do as many as you can. The answers are included in this document.

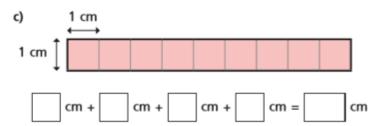
I have also included some reasoning and problem solving and a hands on activity.

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them neatly with a ruler.

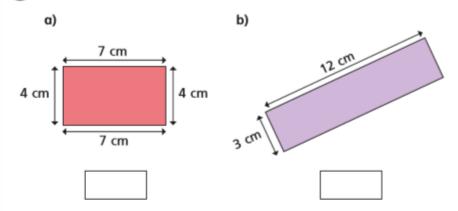


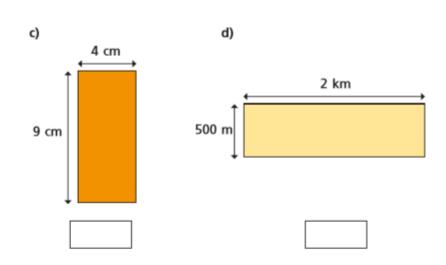




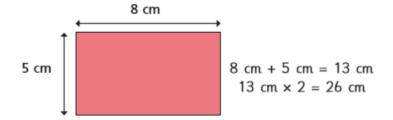


Work out the perimeter of the rectangles.

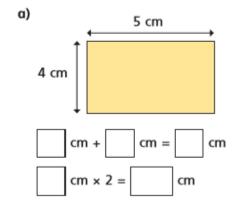


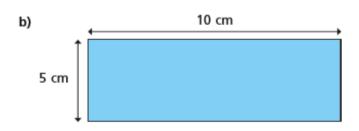


Tommy is working out the perimeter of some rectangles.



Use Tommy's method to find the perimeter of these rectangles.

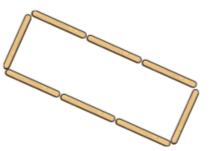




cm +		cm =		cn
cm ×	2 =		cm	

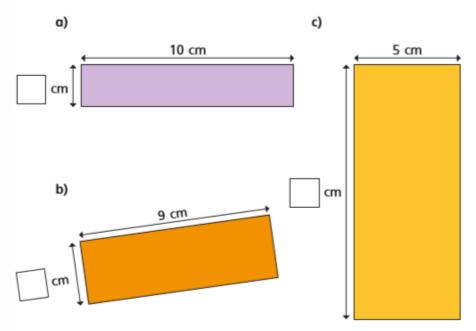
Each lolly stick is 8 cm long.

Find the perimeter of the shape.



Each of these rectangles has a perimeter of 24 cm.

Work out the missing lengths and label the diagrams.

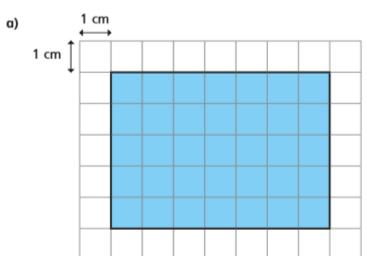


What do you notice?

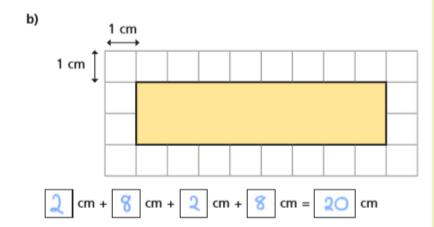
Find any other rectangles that have the same perimeter.

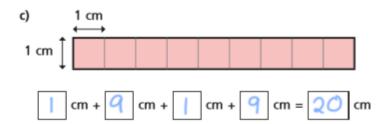
ANSWERS

Work out the perimeter of each rectangle.

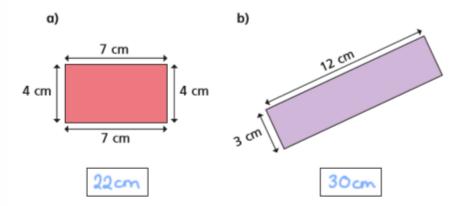


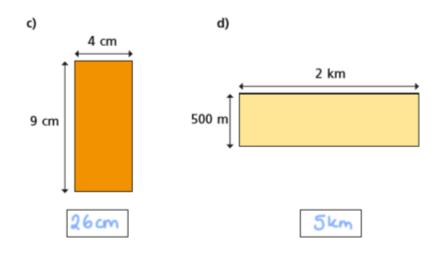
$$5 \text{ cm} + 7 \text{ cm} + 5 \text{ cm} + 7 \text{ cm} = 24 \text{ cm}$$



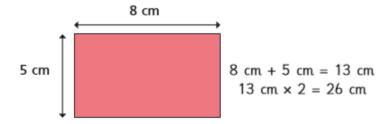


Work out the perimeter of the rectangles.

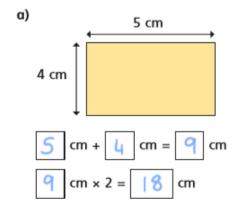


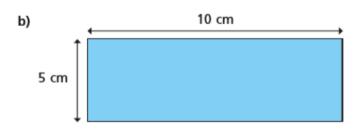


Tommy is working out the perimeter of some rectangles.

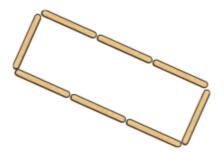


Use Tommy's method to find the perimeter of these rectangles.





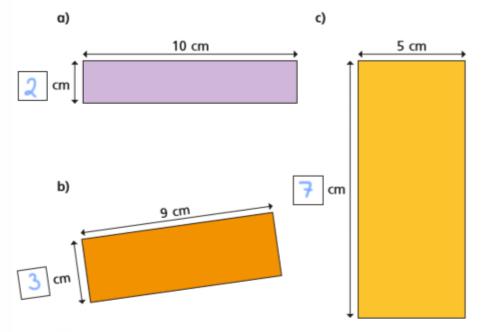
Each lolly stick is 8 cm long.
Find the perimeter of the shape.



64cm

Each of these rectangles has a perimeter of 24 cm.

Work out the missing lengths and label the diagrams.



What do you notice?

Find any other rectangles that have the same perimeter.

Can I calculate the perimeter of rectangles? (Y4) Reasoning and problem solving

The width of a rectangle is 2 metres less than the length.

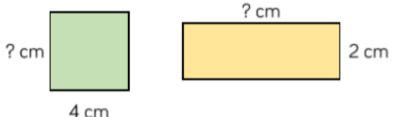
The perimeter of the rectangle is between 20 m and 30 m.

What could the dimensions of the rectangle be?

Draw all the rectangles that fit these rules. Use 1 cm = 1 m.

 Each of the shapes have a perimeter of 16 cm.

Calculate the lengths of the missing sides.



- Always, Sometimes, Never
 When all the sides of a rectangle are odd
 numbers, the perimeter is even.
 Prove it.
- Here is a square. Each of the sides is a whole number of metres.

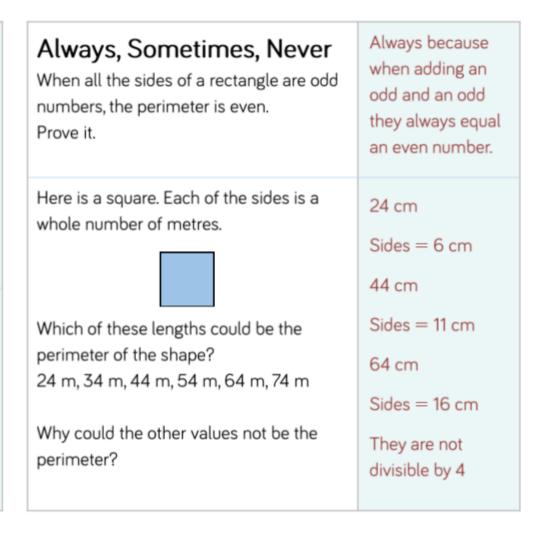


Which of these lengths could be the perimeter of the shape? 24 m, 34 m, 44 m, 54 m, 64 m, 74 m

Why could the other values not be the perimeter?

Reasoning and problem solving - ANSWERS

The width of a rectangle is 2 metres less than the length. The perimeter of the rectangle is between 20 m and 30 m. What could the dimensions of the rectangle be? Draw all the rectangles that fit these rules. Use 1 cm = 1 m.	If the perimeter is: 20 m Length = 6 m Width = 4 m 24 m Length = 7 m Width = 5 m 28 m Length = 8 m Width = 6 m
Each of the shapes have a perimeter of 16 cm. Calculate the lengths of the missing sides. ? cm ? cm 2 cm	4 cm 6 cm



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Your challenge

Measure the perimeter of different things around your house.

Keeping in mind that perimeter is a path that surrounds a two-dimensional (2D) shape, you could measure things like the perimeter of your table (if it's a square or rectangle), the perimeter of your bedroom, or the perimeter of your garden.

What else can you think of?

Please remember to write what you are measuring and your calculations in your maths book.