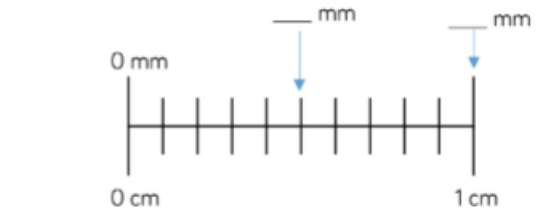
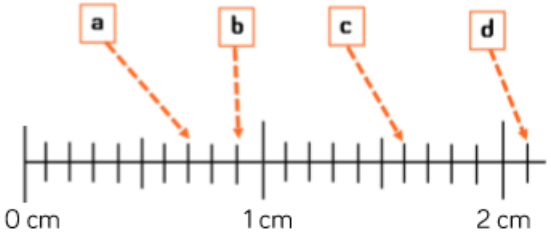
14.04.2021

Calculating perimeter

Fill in the blanks.



There are ___ mm in 1 cm.



a = ___ cm ___ mm
b = ___ cm ___ mm
c = ___ cm ___ mm
d = ___ cm ___ mm

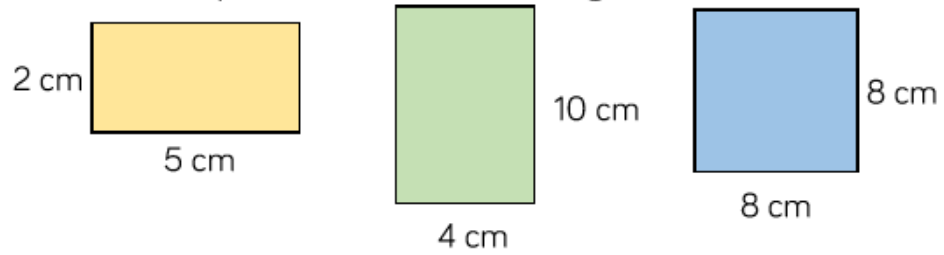
Tick the images where you can find the perimeter.

Explain why you can't find the perimeter of some of the images.

_____

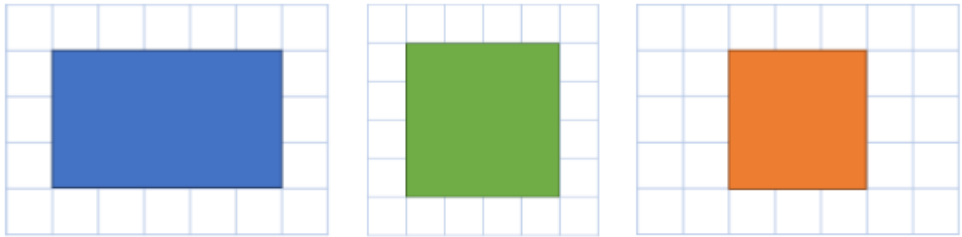
_____

Calculate the perimeter of the rectangles.



___ cm + ___ cm + ___ cm + ___ cm = ___ cm

Calculate the perimeter of the shapes.



Blue: _____ squares

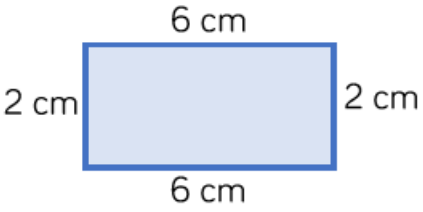
Green: _____ squares

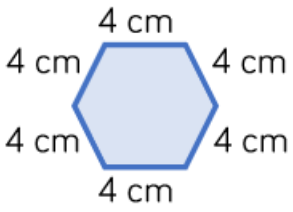
Orange: _____ squares

14.04.2021

Calculating perimeter - Challenge

Calculate the perimeter of the shapes.





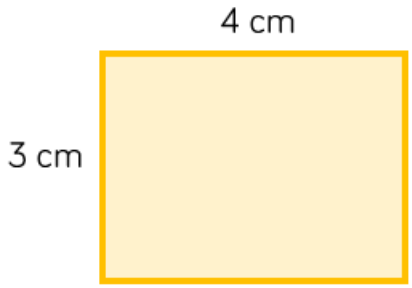
Rectangle: _____

Hexagon: _____

Square: _____

Amir is measuring the shape below.
He thinks the perimeter is 7 cm.

Can you spot his mistake?



_____

_____

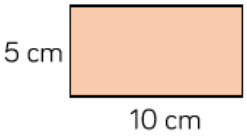
_____

_____

_____

Eva is finding the perimeter of the rectangle.

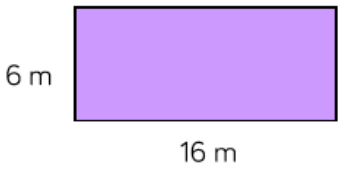
I added the length and width together and then multiplied by 2

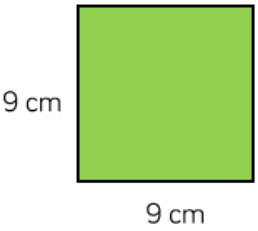


5 cm + 10 cm = 15 cm

15 cm × 2 = 30 cm

Use Eva's method to find the perimeter of the rectangles.



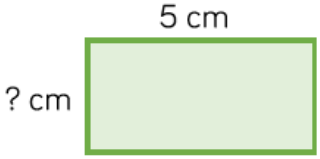


_____

_____

_____

What is the length of the missing side?



Perimeter = 16 cm

Each side of this shape is of equal length.
The perimeter is 60 cm.
How long is each side?

Complete the statements.

3,000 m = ___ km

5 km = ___ m

500 m = ___ km

9,500 m = ___ km

8 km = _____ m

3 km + 6 km = _____ m

250 m = _____ km

4,500 m − 2,000 m = _____ km

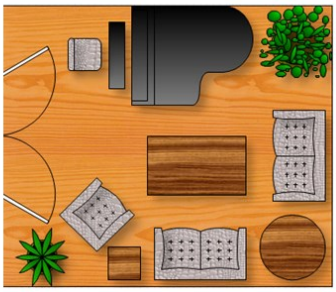
15.04.2021

Calculating perimeter

Leo the Lion is exploring an enormous mansion. He explores every room and begins by prowling all the way around the perimeter of each room. Find out what the perimeter of each room is that he explores...

5m

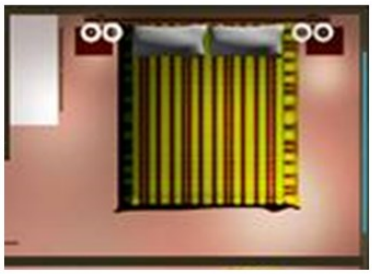
4m



Perimeter: _____

6m

2m



Perimeter: _____

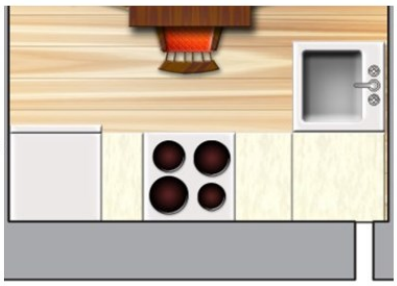
5m

5m

Perimeter: _____

4m

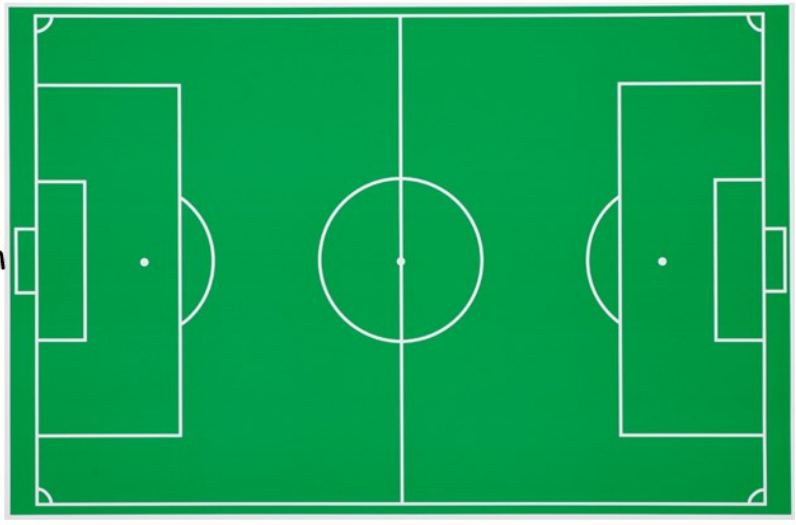
3m



Perimeter: _____

25m

15m



Perimeter: _____

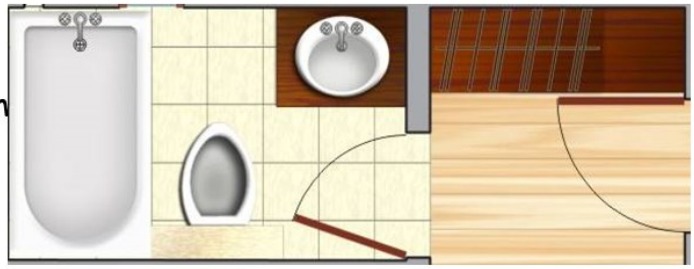
7m

2m

Perimeter: _____

12m

2m



Perimeter: _____

15.04.2021

Calculating perimeter - Challenge

Teddy says,

You only need to know the length of one side of these 2-D shapes to work out the perimeter.

Do you agree with Teddy?
Explain your answer.

_____

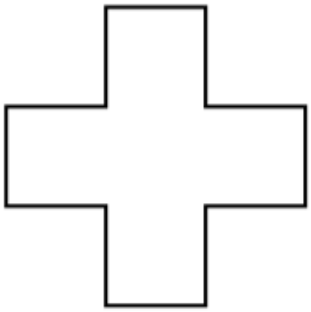
_____

_____

_____

_____

Here is a rectilinear shape. All the sides are the same length and are a whole number of centimetres.



Which of these lengths could be the perimeter of the shape?

48 cm, 36 cm, 80 cm, 120 cm, 66 cm

Can you think of any other answers which could be correct?

_____

_____

_____

Ron is thinking of a measurement.
Use his clues to work out which measurement he is thinking of.

- In mm, my measurement is a multiple of 2
- It has 8 cm and some mm
- It's less than 85 mm
- In mm, the digit sum is 12

_____

Use <, > or = to make the statements correct.

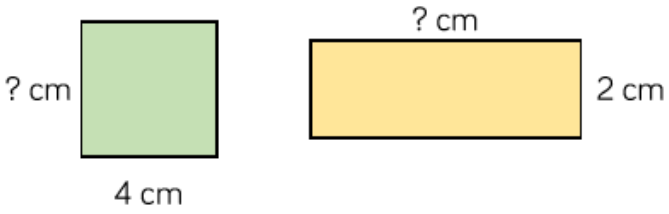
500 m	◯	$\frac{1}{2}$ km
7 km	◯	800 m
5 km	◯	500 m

How many different rectangles can you draw with a perimeter of 20 cm?

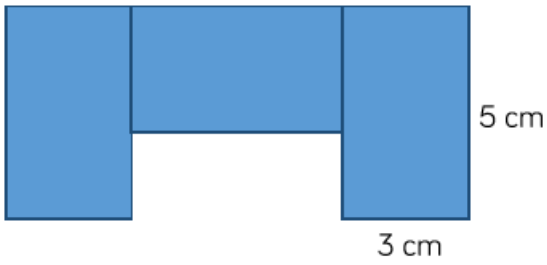
16.04.2021

Solving perimeter problems.

Each of the shapes have a perimeter of 16 cm.
Calculate the lengths of the missing sides.



The shape is made from 3 identical rectangles.
Calculate the perimeter of the shape.



Whitney is measuring the perimeter of a square.
She says she only needs to measure one side of the square.

Do you agree?
Explain your answer.

Always, Sometimes, Never

When all the sides of a rectangle are odd numbers, the perimeter is even.
Prove it.

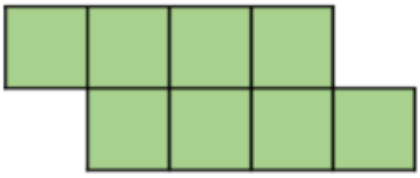
Journal on the next page.

16.04.2021

Solving perimeter problems - Challenge

Here is a shape made from centimetre squares.

Find the perimeter of the shape.



Can you use 8 centimetre squares to make different shapes?

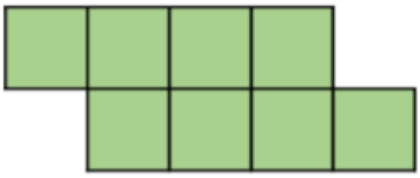
Find the perimeter of each one.

16.04.2021

Solving perimeter problems - Challenge

Here is a shape made from centimetre squares.

Find the perimeter of the shape.



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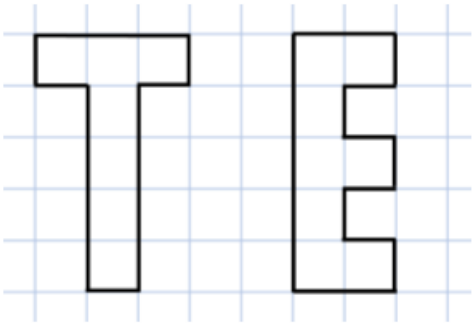
16.04.2021

Solving perimeter problems - Challenge

Which of these shapes has the longest perimeter?



Explore other letters which could be drawn as rectilinear shapes.

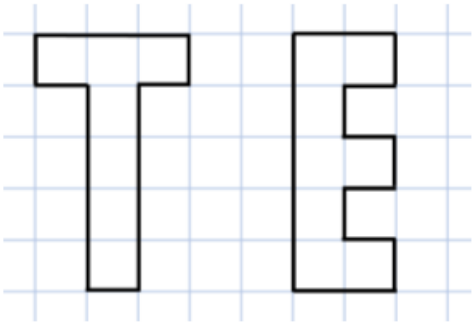
Put them in order of shortest to longest perimeter.

Can you make a word?

16.04.2021

Solving perimeter problems - Challenge

Which of these shapes has the longest perimeter?



Explore other letters which could be drawn as rectilinear shapes.

Put them in order of shortest to longest perimeter.

Can you make a word?