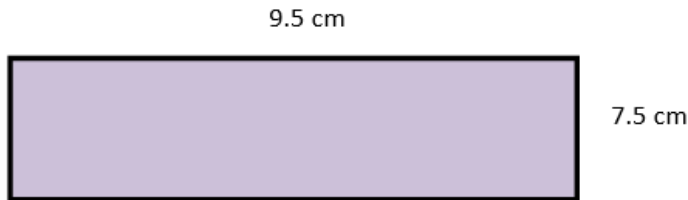


IAL: to calculate perimeter

https://www.youtube.com/watch?v=C_J6mZ6-g_E
<https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/zsr4k7h>

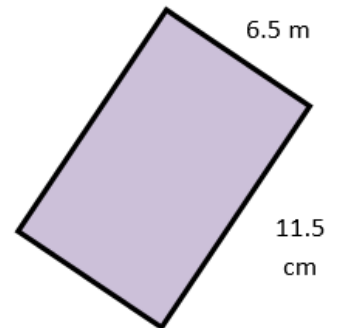
A

Find the perimeters of these rectangles:



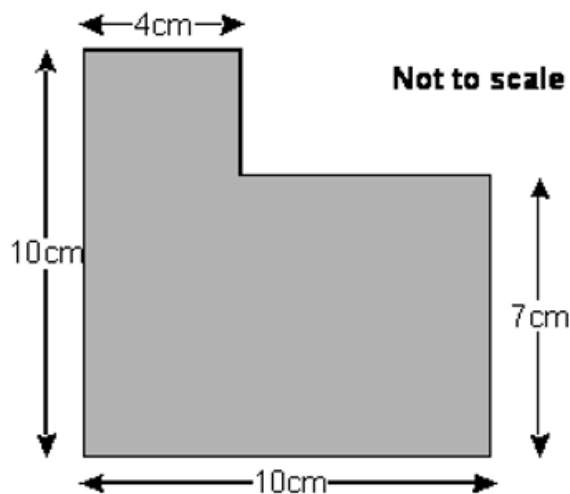
34cm

36 cm



A regular hexagon has a perimeter of 78cm.
How long are the sides of the hexagon?

13 cm



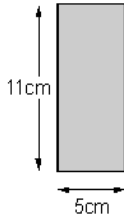
Calculate the perimeter of this shape.

40 cm

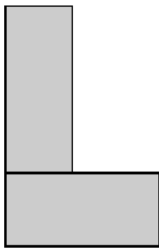
B

This square has a perimeter of 64cm.

Liam has two rectangular tiles like this.



He makes this L shape.



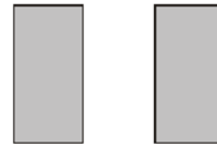
What is the **perimeter** of Liam's L shape?

54 cm



Not actual size

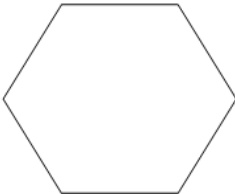
The square is cut in half to make two identical rectangles.



What is the perimeter of **one** rectangle?

48 cm

C

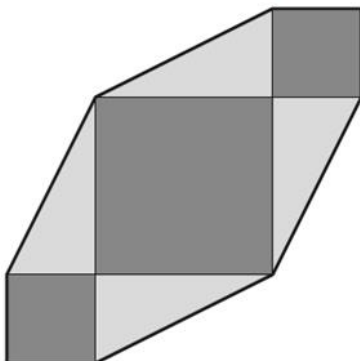


A regular hexagon has sides that are 7.08m long. What is its perimeter in cm?

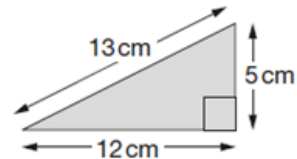
4248cm

Chen has some right-angled triangular tiles.

He makes this shape with four of his triangular tiles and three square tiles.



Not actual size



Not actual size

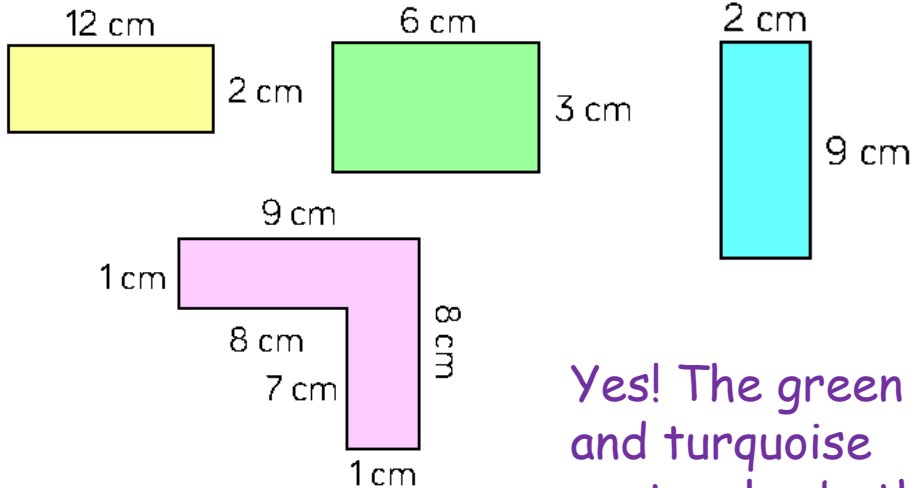
What is the **perimeter** of Chen's shape?

72cm

IAL: to calculate area

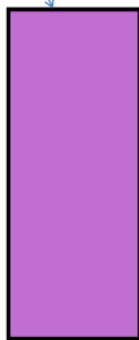
A

Look at the shapes below.
Do any of them have the same area?

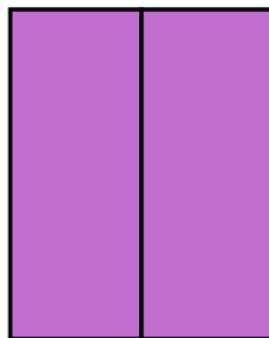


Yes! The green and turquoise rectangles both have an area of 18cm^2 .

This rectangle is 3cm wide and 5cm long.



If I put two of them together. What is the area of this shape?



30cm^2

B

Gumbo says, "Two rectangles can have the same area but different perimeters."

Is he right or wrong? Explain (show- give examples) how you know.

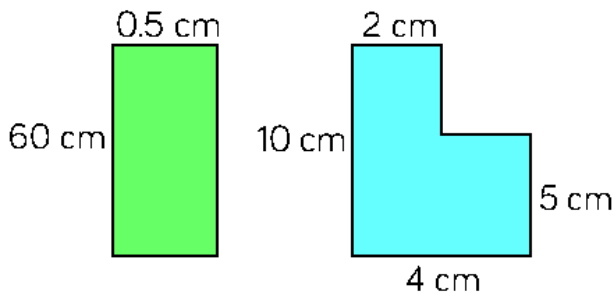
He is right. EG

a rectangle with 2cm and 5cm sides: area = 10cm^2 perimeter = 14cm
a rectangle with 1cm and 10cm sides: area = 10cm^2 perimeter = 22cm

Kylie and Dannii are challenged to draw a shape with an area of 30cm^2 .

Kylie draws the shape on the left and Dannii draws the shape on the right.

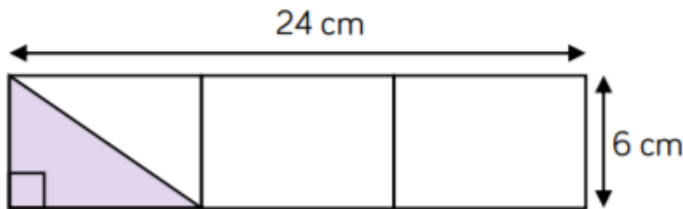
Did they get it right?



They both got it right!

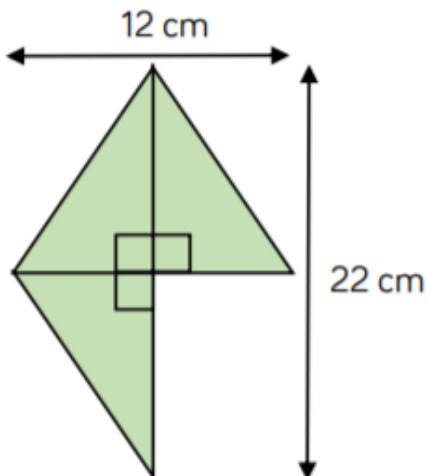
C

<https://www.youtube.com/watch?v=6WsQH1cAYMM>



Calculate the area of the shaded triangle.

24cm^2



This shape is made of three identical triangles.

Calculate the area of the shape.

99cm^2

IAL: to apply my understanding of area and perimeter

Three children are given the same shape to draw.

Kate says, "The smallest length is 2 cm."

Lucy says, "The area is less than 30 cm^2 "

Ash says, "The perimeter is 22 cm."

What could the shape be?

Use the grid below to draw the shapes. It is not 1 cm^2 but will help. There are many, many possible answers!

