

# 6

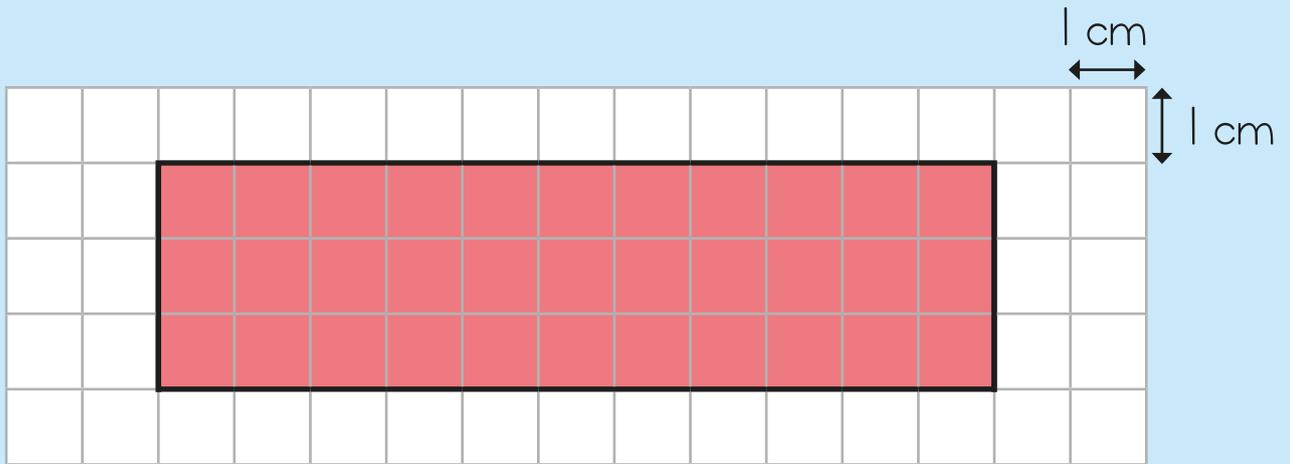
# PERIMETER, AREA AND VOLUME

White  
Rose  
Maths



From White Rose Maths schemes for Year 6 Spring Term  
**BLOCK 5 - PERIMETER, AREA AND VOLUME**

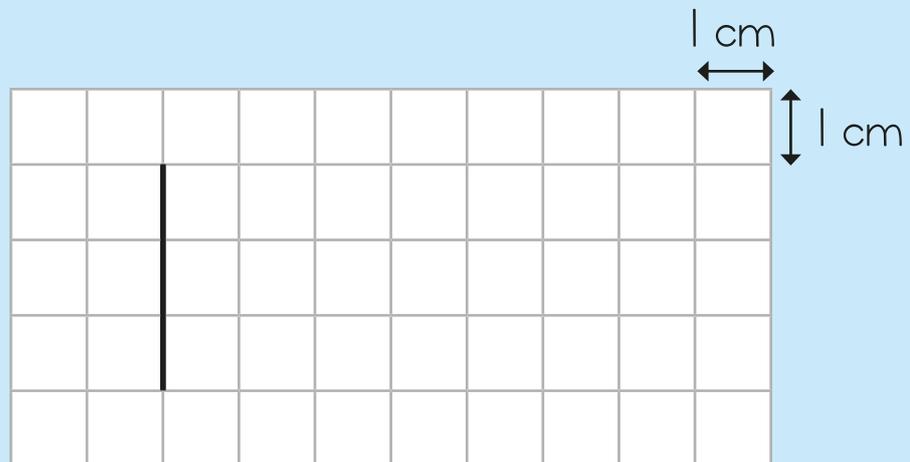
- 1 A rectangle is drawn on a centimetre square grid.



What is the area of the rectangle?   $\text{cm}^2$

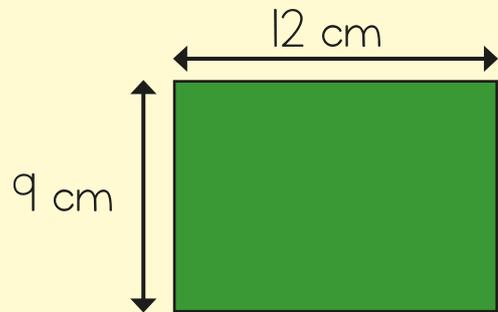
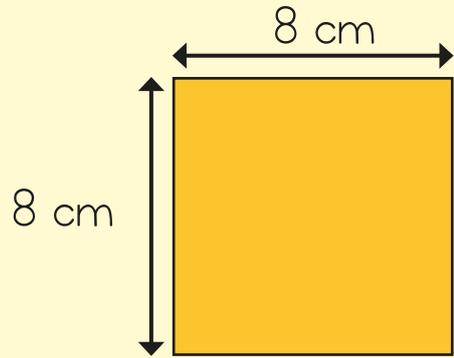
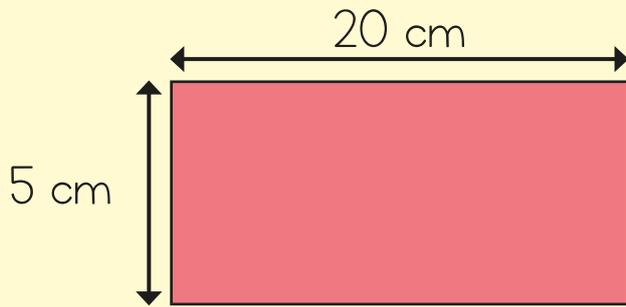
What is the perimeter of the rectangle?   $\text{cm}$

- 2 The perimeter of a rectangle is 16 cm.  
One of the sides is shown.

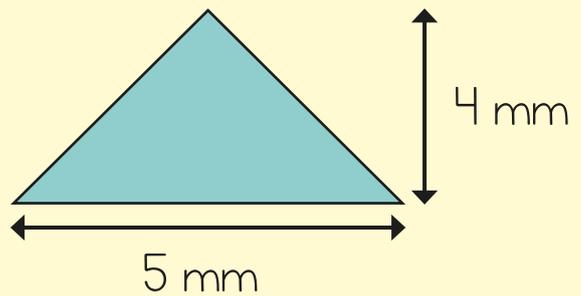
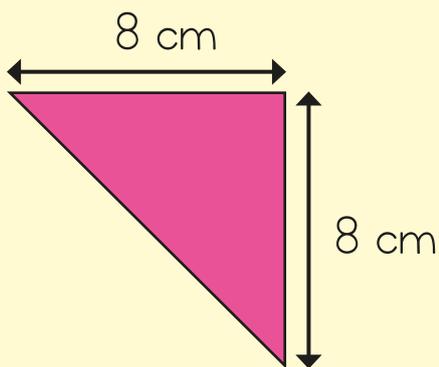


Complete the rectangle.

3 Tick the shapes that have an area of  $100 \text{ cm}^2$

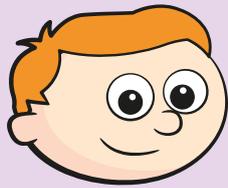
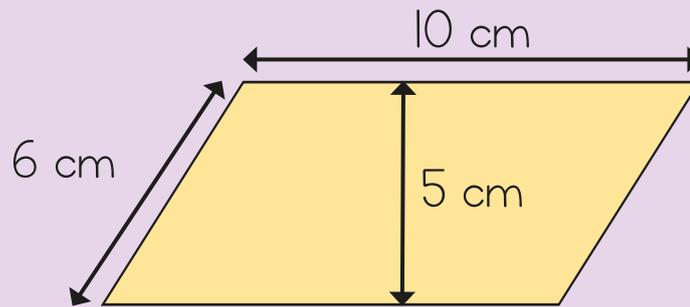


4 Work out the areas of the triangles.  
Give units with your answers.



5

Ron is working out the area of the parallelogram.



The area of  
the parallelogram  
is  $60 \text{ cm}^2$

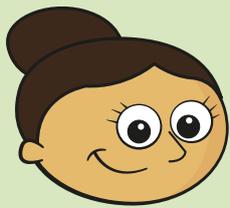
What mistake has Ron made?

A large empty rounded rectangular box with a blue border, intended for writing an answer.

What is the correct area?

A large empty rounded rectangular box with a blue border, intended for writing an answer.

6

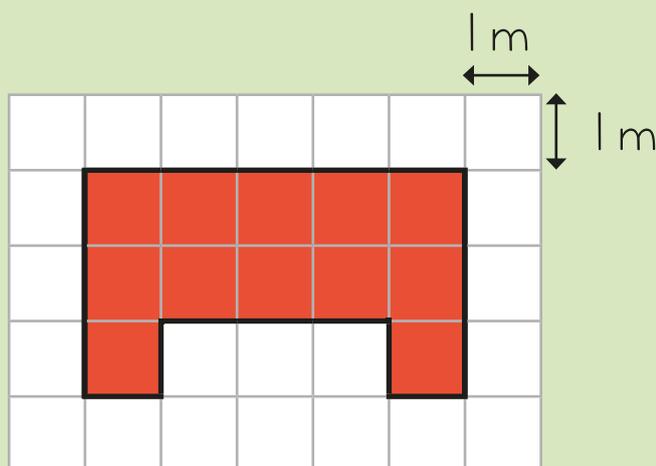


Rectangles cannot have the same area and perimeter.

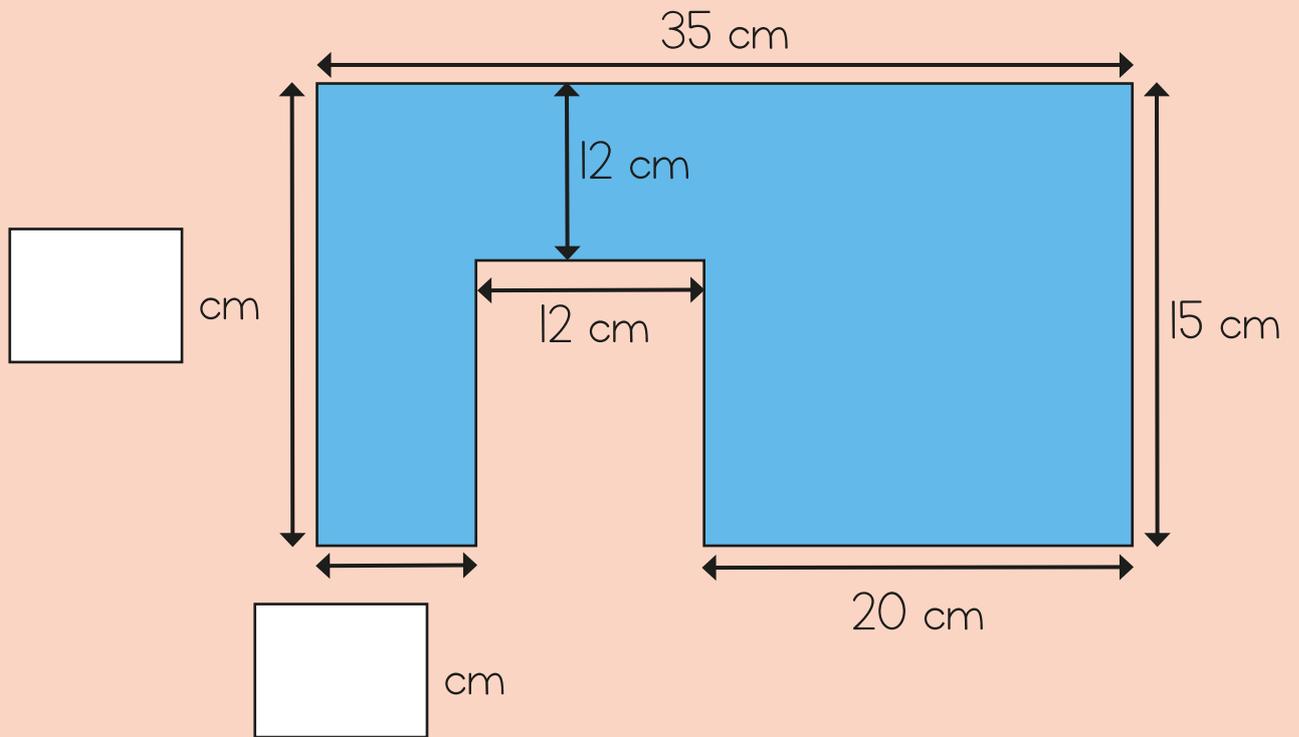
Is Dora correct? Explain your answer.

7

The diagram shows the layout of a garden.  
A fence is to be built around the garden.  
What is the length of fence needed?



8 Fill in the missing lengths.



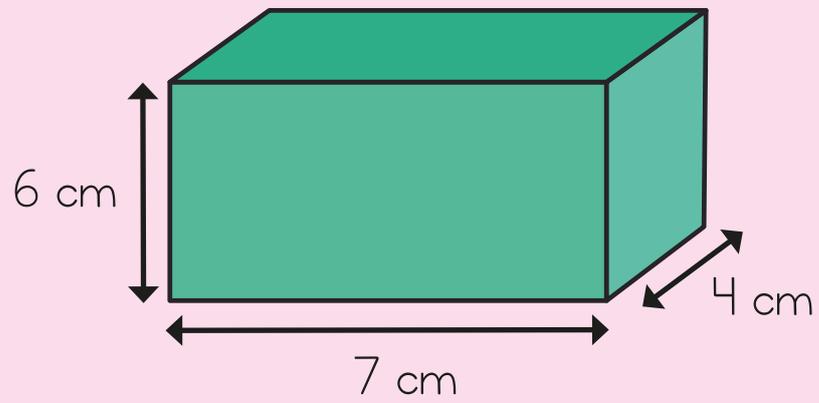
What is the area of the shape?

Show all your workings.

Blank area for showing workings.

9

Work out the volume of the cuboid.

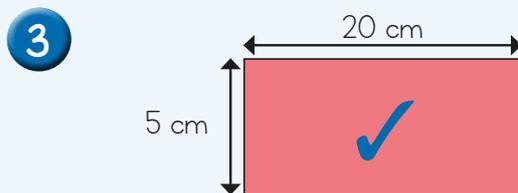
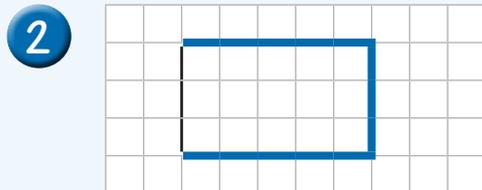


A large empty rounded rectangular box with a blue border, intended for the student to write their answer.

# Answers



1  $33 \text{ cm}^2$        $28 \text{ cm}$

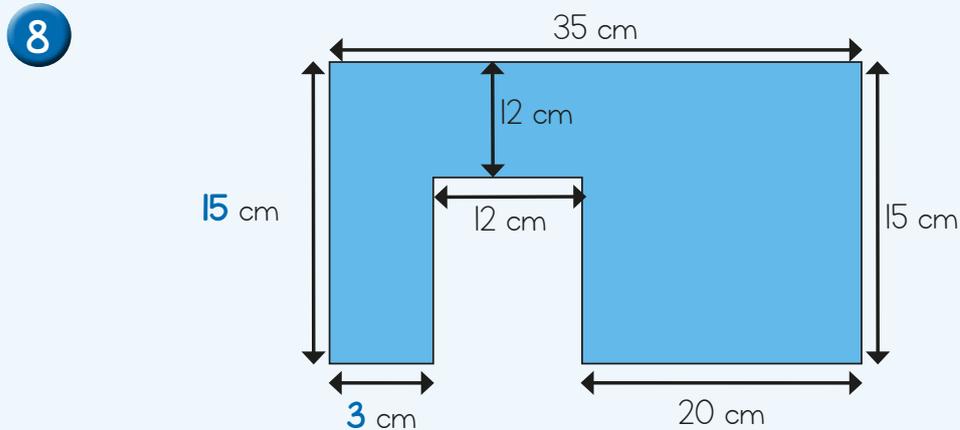


4  $32 \text{ cm}^2$        $10 \text{ mm}^2$

5 He has used 6 cm as the perpendicular height.  
 $50 \text{ cm}^2$

6 Dora is incorrect. Rectangles can sometimes have the same area and perimeter. For example, a 6 by 3 rectangle has an area and a perimeter of 18

7 18 m



$489 \text{ cm}^2$

9  $168 \text{ cm}^3$