

NAME _____

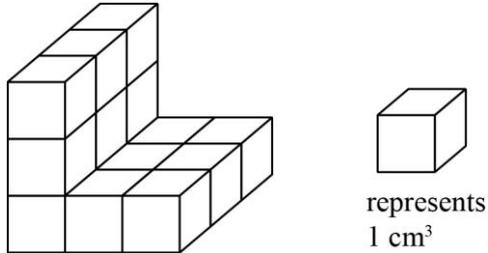
Time:



Calculator Questions



- 1 Here is a solid prism made of centimetre cubes.

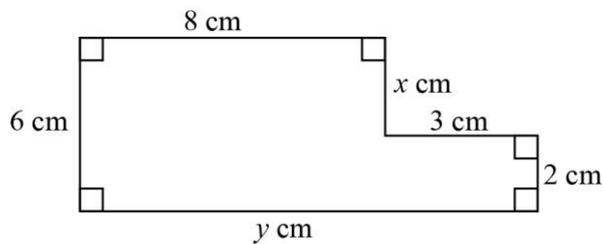


Work out the volume of the prism.

(2 marks)



- 3 Work out the value of x and the value of y .



(2 marks)

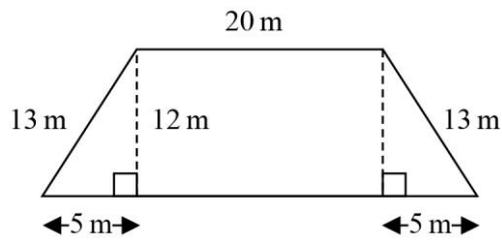


- 5 A square has an area of 90 cm^2 .
Work out the length of one side of the square.
Give your answer correct to 1 decimal place.

(1 mark)



7 Here is a trapezium.



Jenny wants to work out the area of the trapezium.

She writes:

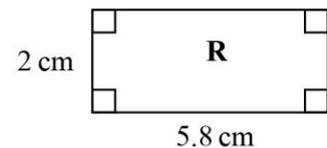
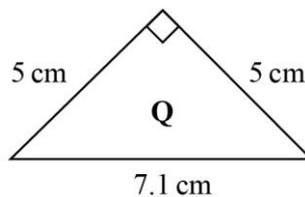
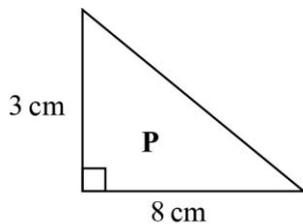
$$\begin{aligned} \text{area} &= \frac{1}{2}(20 + 30)(13) \\ &= (10 + 30)(13) \\ &= 40 \times 13 \\ &= 520\text{m}^2 \end{aligned}$$

What two mistakes did Jenny make in her method?

(2 marks)



9 Here are three shapes labelled **P**, **Q** and **R**.



Elia works out the area of each of these shapes.

He says that shape **P** has the smallest area and shape **Q** has the largest area.

Is Elia correct?

You must show all your working.

(4 marks)



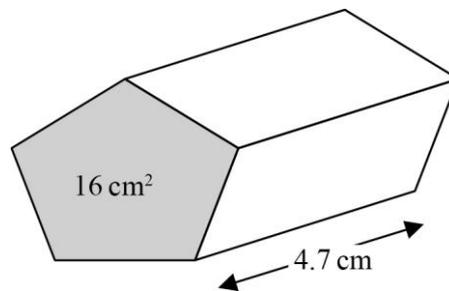
- 11 A cuboid has a
- volume of 240 cm^3
 - length of 8 cm
 - width of 5 cm.

Work out the height of the cuboid.

(2 marks)



- 13 The diagram shows a prism.
The area of the cross section of the prism is 16 cm^2 .
The length of the prism is 4.7 cm.

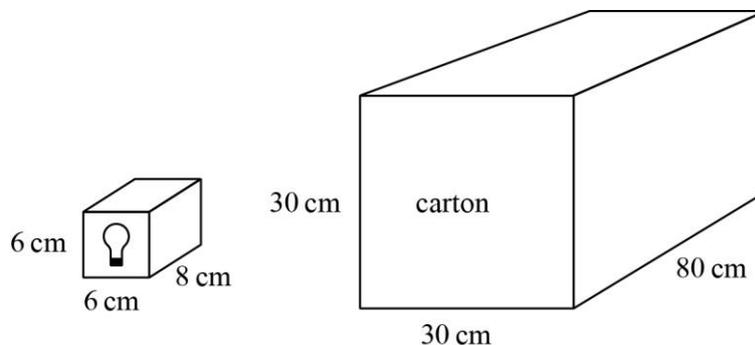


Work out the volume of the prism.

(2 marks)



- 15 A light bulb box measures 6 cm by 6 cm by 8 cm.
Light bulb boxes are packed into cartons.
A carton measures 30 cm by 30 cm by 80 cm.

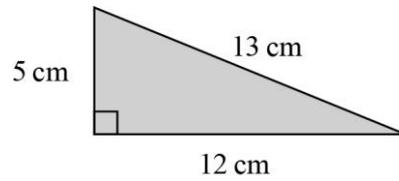


Work out the number of light bulb boxes which can completely fill one carton.

(3 marks)

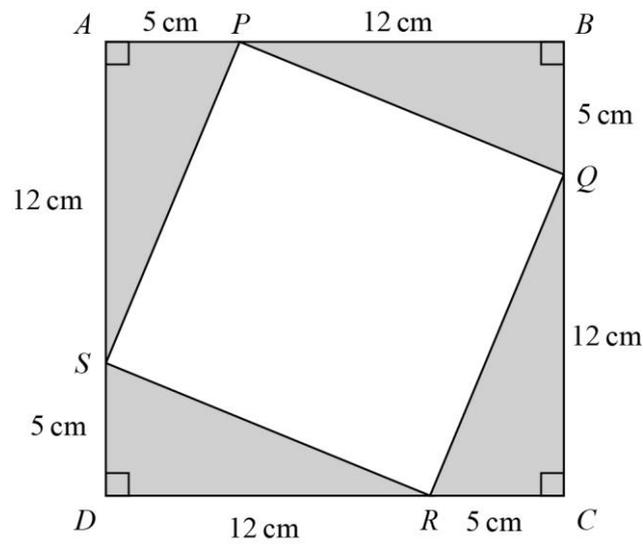


17 a Work out the area of this triangle.



(2 marks)

Four copies of the triangle and the quadrilateral $PQRS$ are used to make the square $ABCD$.



b Find the perimeter of the shaded shape.

(3 marks)

Overall mark	/23
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