Name: SOLUTIONS

GCSE (1 - 9)

Plans and Elevations

Buy me a coffee

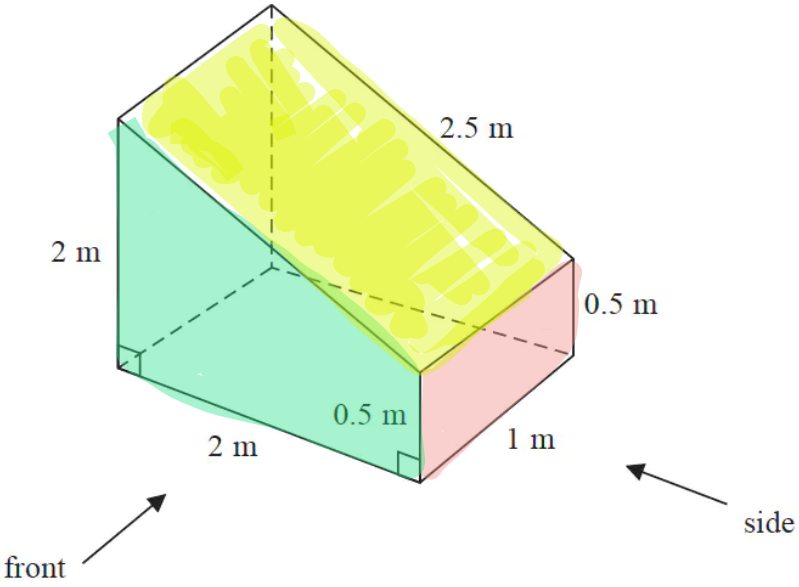
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These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

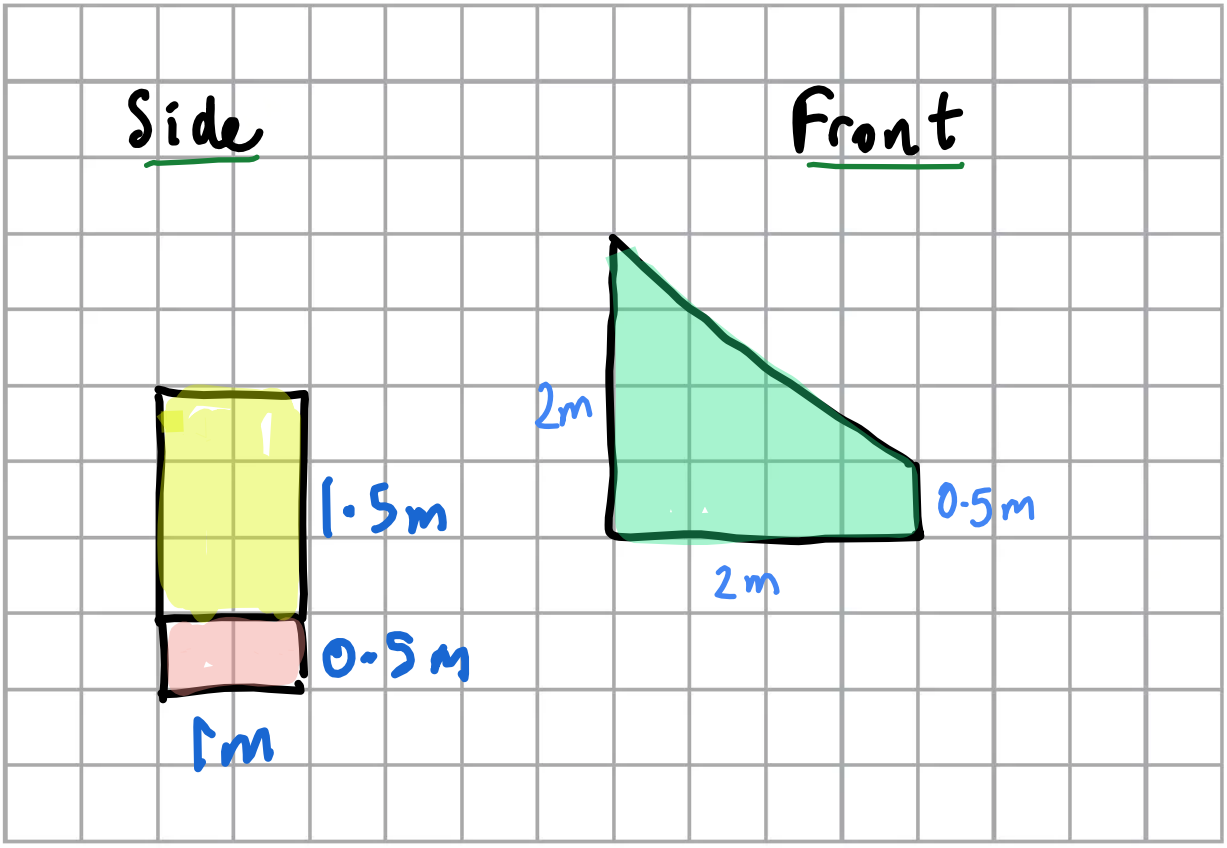
Question	Where the question appeared
1	Edexcel, GCSE, Summer 2017, Paper 2F, Q19
2	Edexcel, GCSE, Summer 2018, Paper 1F, Q23
3	Edexcel, GCSE, Summer 2019, Paper 1F, Q25
4	Edexcel, GCSE, Autumn 2020, Paper 3F, Q22
5	Edexcel, GCSE, November 2022, Paper 2F, Q19
6	Edexcel, GCSE, Summer 2022, Paper 1F, Q22

1

The diagram shows a prism with a cross section in the shape of a trapezium.



On the centimetre grid below, draw the front elevation and the side elevation of the prism.
Use a scale of 2 cm to 1 m.

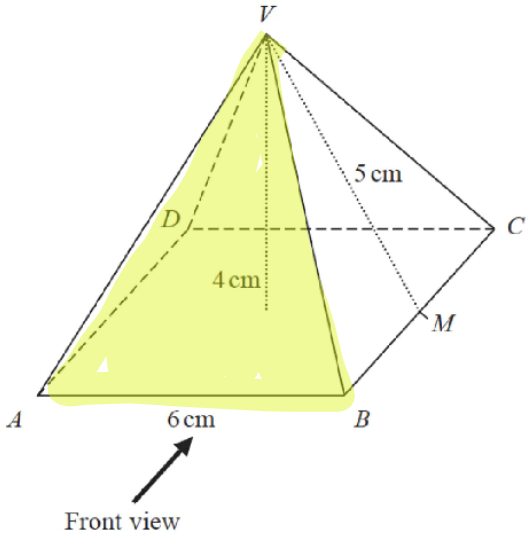


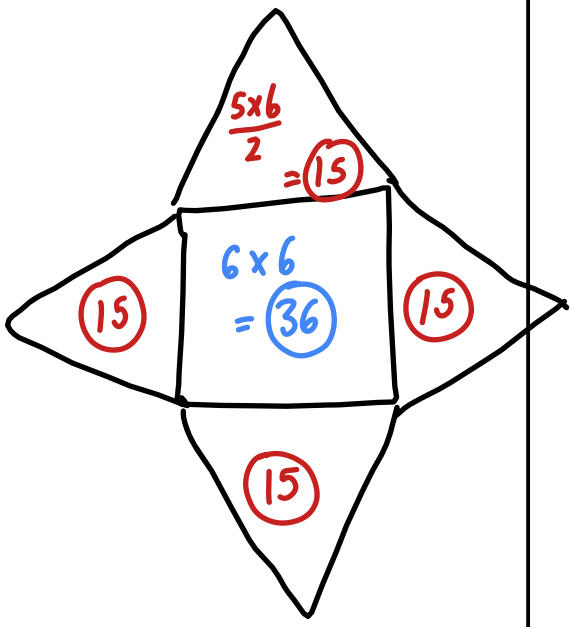
(Total for Question 19 is 4 marks)

[Edexcel, GCSE, Summer 2017, Paper 2F, Q19]

2

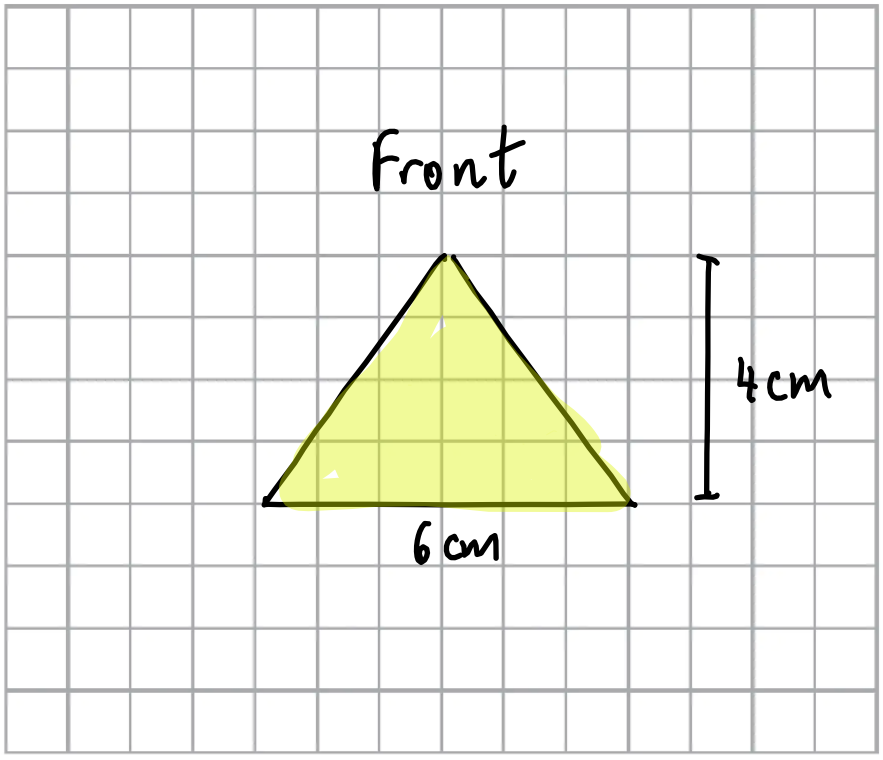
Here is a solid square-based pyramid, $VABCD$.





The base of the pyramid is a square of side 6 cm.
The height of the pyramid is 4 cm.
M is the midpoint of BC and $VM = 5$ cm.

(a) Draw an accurate front elevation of the pyramid from the direction of the arrow.



(2)

(b) Work out the total surface area of the pyramid.

15 x 4 + 36 = 96 cm²

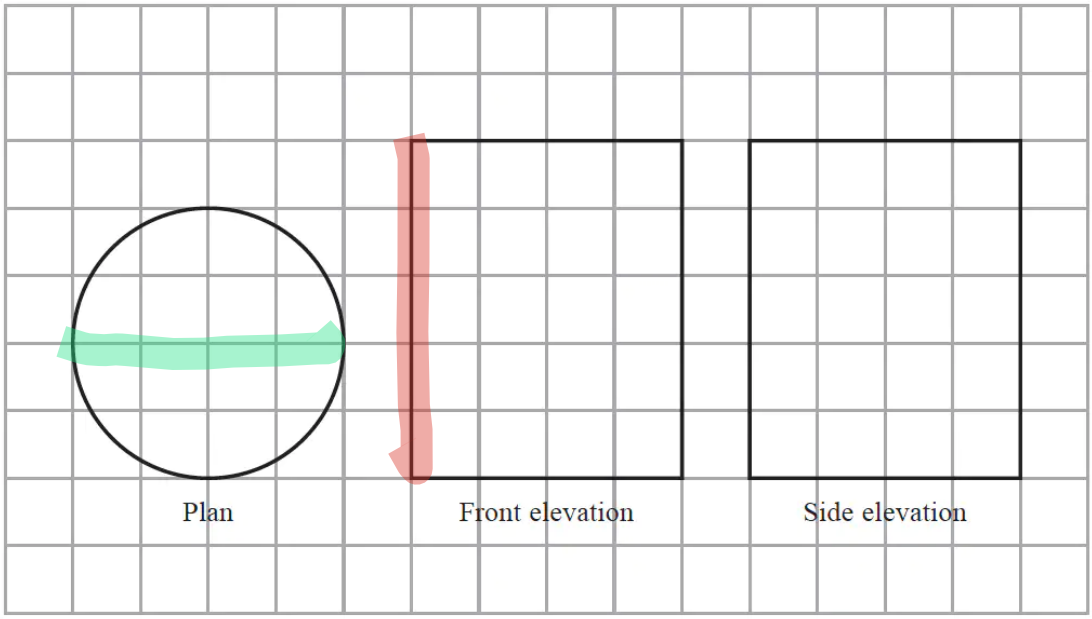
(4)

(Total for Question 23 is 6 marks)

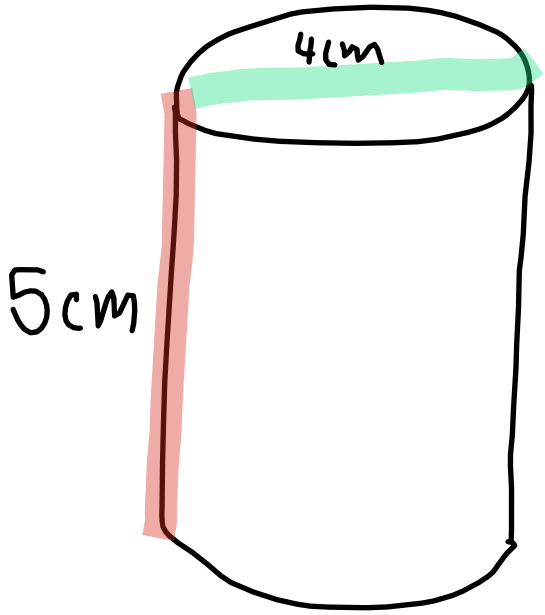
[Edexcel, GCSE, Summer 2018, Paper 1F, Q23]

3

The diagram shows the plan, front elevation and side elevation of a solid shape, drawn on a centimetre grid.



In the space below, draw a sketch of the solid shape.
Give the dimensions of the solid on your sketch.

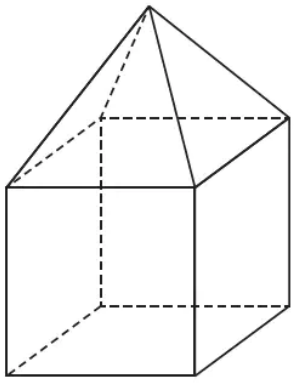


(Total for Question 25 is 2 marks)

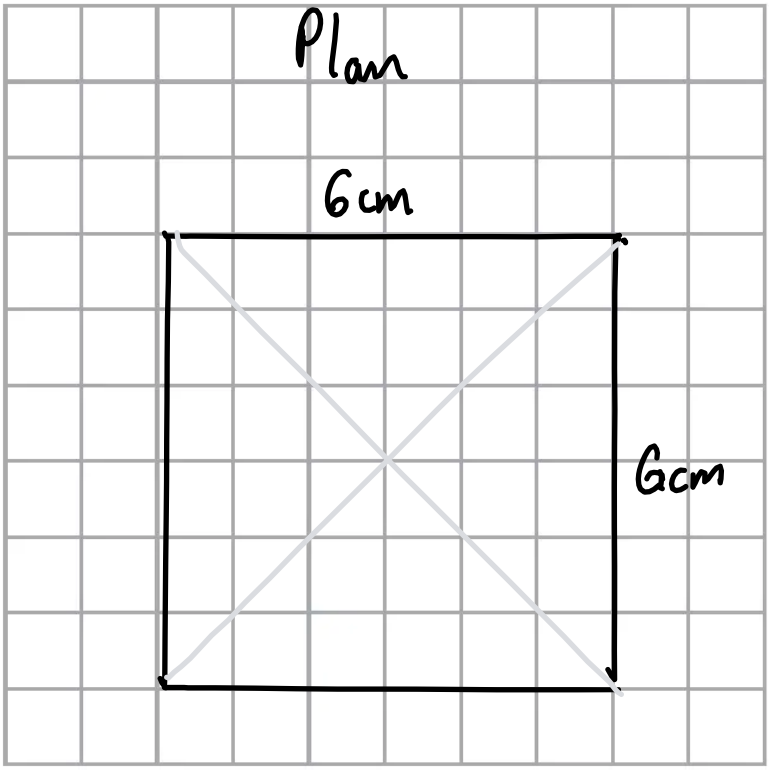
[Edexcel, GCSE, Summer 2019, Paper 1F, Q25]

4

Here is a solid made from a square-based pyramid and a cube.
Each edge of the solid has length 6 cm.



On the centimetre grid, draw the plan of this solid.



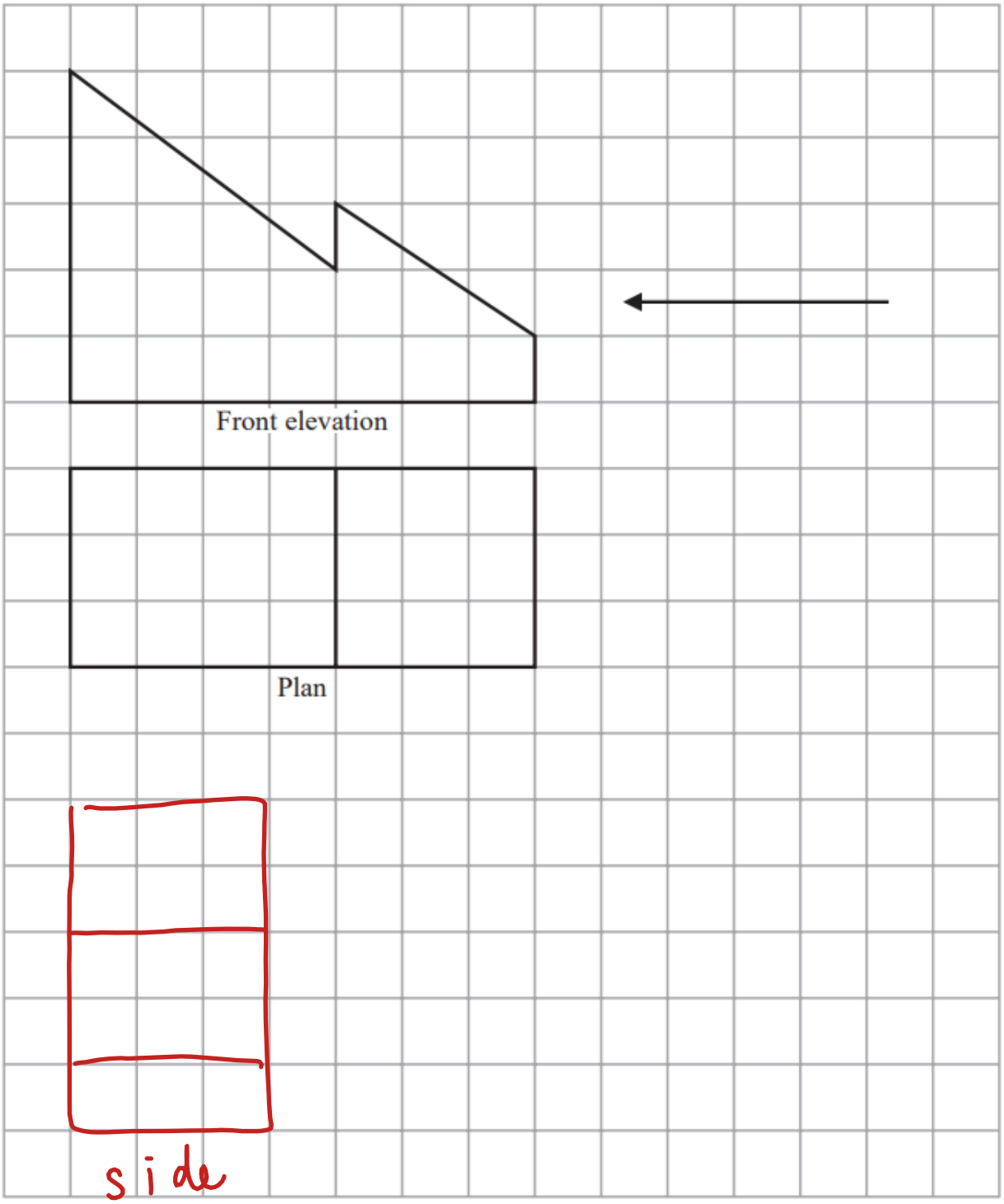
(Total for Question 22 is 2 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3F, Q22]

5

The front elevation and the plan of a solid are shown on the grid.

On the grid, draw the side elevation of the solid from the direction of the arrow.

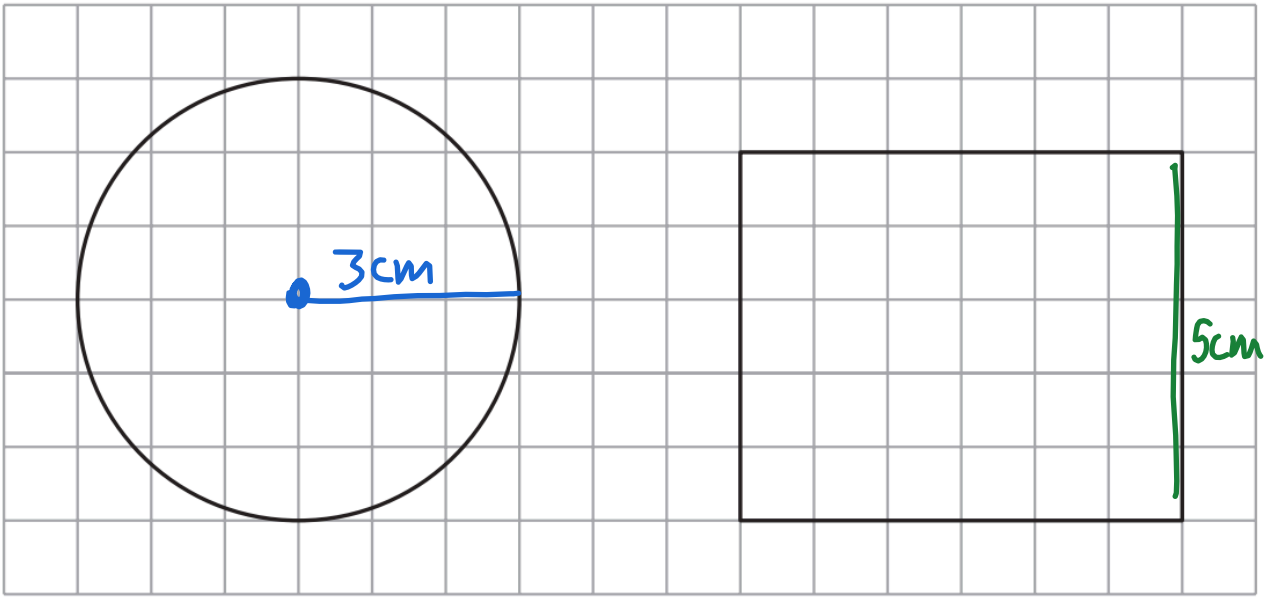


(Total for Question 19 is 2 marks)

[Edexcel, GCSE, November 2022, Paper 2F, Q19]

6

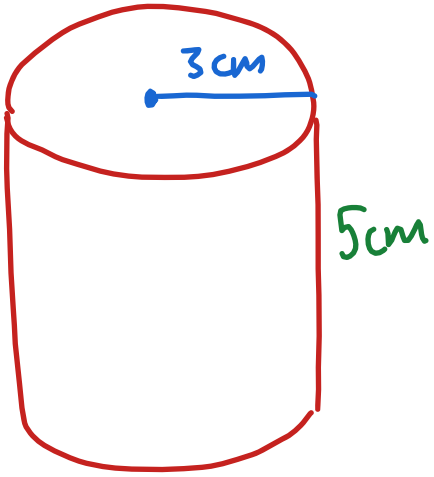
The centimetre grid shows the plan and the front elevation of a cylinder.



Plan

Front elevation

Work out the volume of the cylinder.
Give your answer in terms of π



$\pi \times 3^2 \times 5$

$9\pi \times 5$

$45\pi \text{ cm}^2$

45π ..... cm^3

(Total for Question 22 is 3 marks)

[Edexcel, GCSE, Summer 2022, Paper 1F, Q22]