

A cylinder has a height of 24 cm and a radius of 4 cm. Work out the volume of the cylinder. Give your answer correct to 3 significant figures. 2. A can of drink is in the shape of a cylinder. The can has a radius of 4 cm and a height of 15 cm.



Diagram **NOT** accurately drawn

Calculate the volume of the cylinder. Give your answer correct to 3 significant figures.

.....

(Total 3 marks)

3.



A solid cylinder has a radius of 6 cm and a height of 20 cm.

Calculate the volume of the cylinder.

Give your answer correct to 3 significant figures.

..... cm³ (Total 2 marks)

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The diagram shows a piece of wood. The piece of wood is a prism of length 350 cm. The cross-section of the prism is a semi-circle with diameter 1.2 cm.

Calculate the volume of the piece of wood. Give your answer correct to 3 significant figures.

> cm³ (Total 4 marks)



The diagram shows a prism of length 90 cm. The cross section, *PQRST*, of the prism is a semi-circle above a rectangle. *PQRT* is a rectangle. *RST* is a semi-circle with diameter *RT*. PQ = RT = 60 cm. PT = QR = 45 cm.

Calculate the volume of the prism. Give your answer correct to 3 significant figures. State the units of your answer.



Diagram NOT accurately drawn

The diagram shows a solid cylinder. The cylinder has a diameter of 12 cm and a height of 18 cm.

Calculate the **total** surface area of the cylinder. Give your answer correct to 3 significant figures.



The diagram shows a solid cylinder. The radius of the cylinder is 9.3 cm. Its height is 12.4 cm.

Calculate the **total** surface area of the cylinder. Give your answer correct to 3 significant figures.

Edexcel GCSE Maths - Cylinders

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Diagram NOT accurately drawn

The diagram shows a cylinder with a height of 10 cm and a radius of 4 cm.

(a) Calculate the volume of the cylinder. Give your answer correct to 3 significant figures.

.....

(3)

The cylinder is solid.

(b) Calculate the **total** surface area of the cylinder. Give your answer correct to 3 significant figures.

..... (3) (Total 6 marks)