1. 



Diagram NOT accurately drawn
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.
3.


Diagram NOT accurately drawn
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.
4.


Diagram NOT accurately drawn
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.
5.


Diagram NOT accurately drawn
The diagram shows a prism of length 90 cm .
The cross section, PQRST, of the prism is a semi-circle above a rectangle.
$P Q R T$ is a rectangle.
$R S T$ is a semi-circle with diameter $R T$.
$P Q=R T=60 \mathrm{~cm}$.
$P T=Q R=45 \mathrm{~cm}$.
Calculate the volume of the prism.
Give your answer correct to 3 significant figures.
State the units of your answer.
6.


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.
7.


Diagram NOT accurately drawn
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.
8.


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.

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

