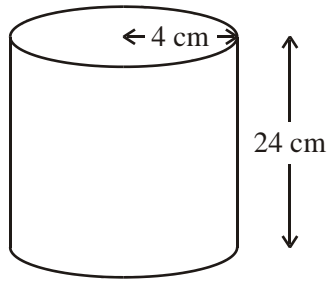1.

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.

…………………………… cm^3

(Total 2 marks)

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.
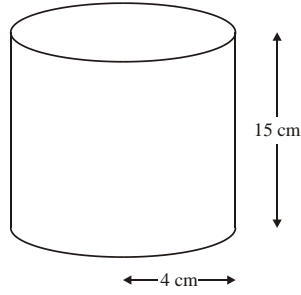
Diagram **NOT**
accurately drawn

15 cm

←4 cm→

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

…………………………
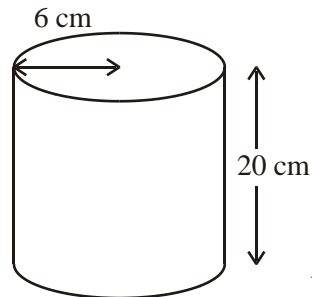
(Total 3 marks)

3.

6 cm

20 cm

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.

.... cm^3
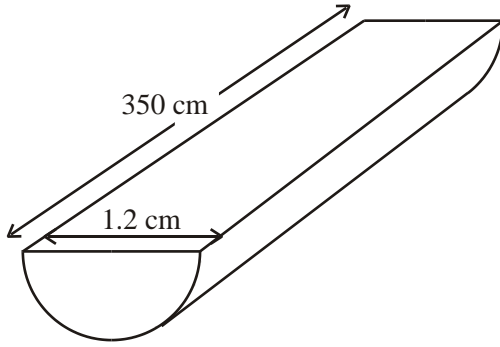**(Total 2 marks)**

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.

.... cm^3

(Total 4 marks)

5.
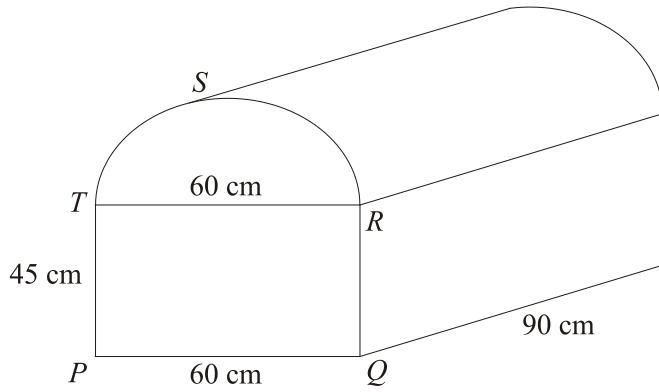

S

60 cm

T

R

45 cm

90 cm

P　　60 cm　　Q

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.
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.

....
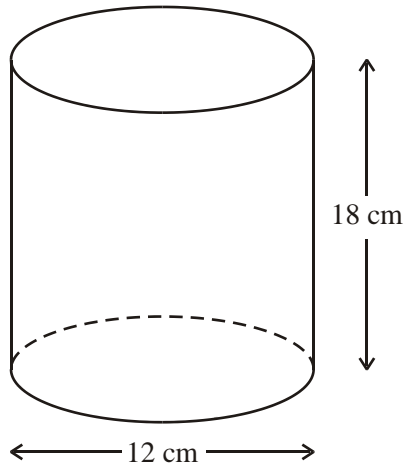
(Total 5 marks)

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.

.... cm^2

(Total 4 marks)
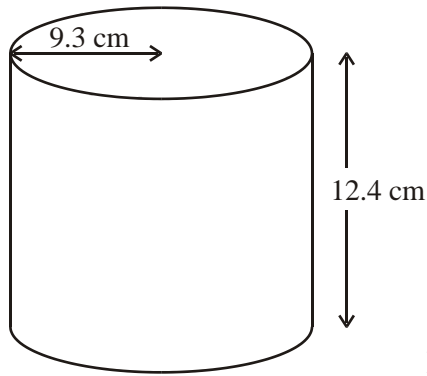
7.

9.3 cm

12.4 cm

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.
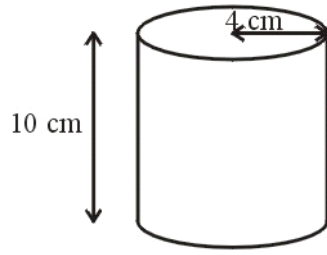
.... cm^2

(Total 4 marks)

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)