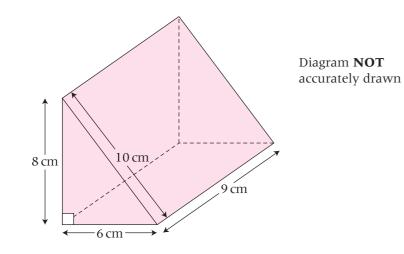


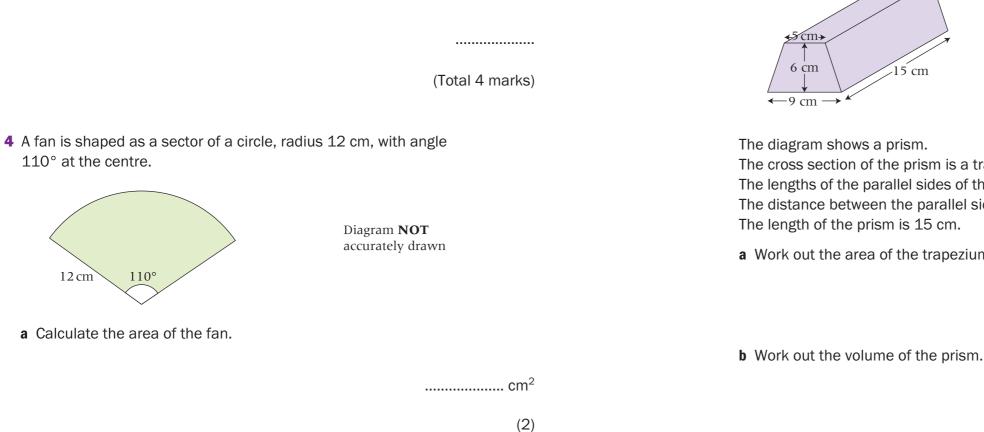




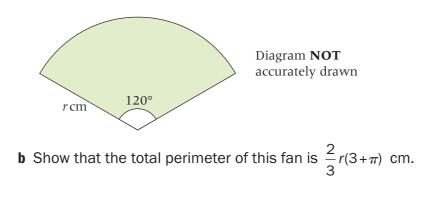
3



Work out the surface area of the triangular prism. State the units with your answer.



Another fan is shaped as a sector of a circle, radius *r* cm, with angle 120° at the centre.



(3)

(Total 5 marks)

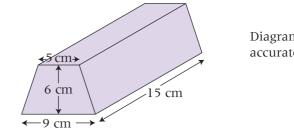


Diagram **NOT** accurately drawn

The diagram shows a prism.

5

The cross section of the prism is a trapezium.

The lengths of the parallel sides of the trapezium are 9 cm and 5 cm. The distance between the parallel sides of the trapezium is 6 cm.

a Work out the area of the trapezium.

(Total 4 marks)

..... cm²

..... cm³

(2)

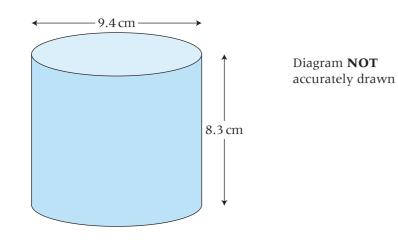
(2)

2







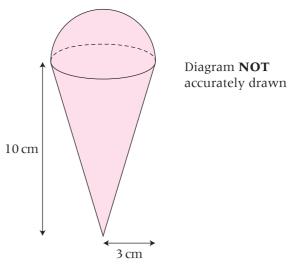


A solid cylinder has a diameter of 9.4 cm and a height of 8.3 cm.

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

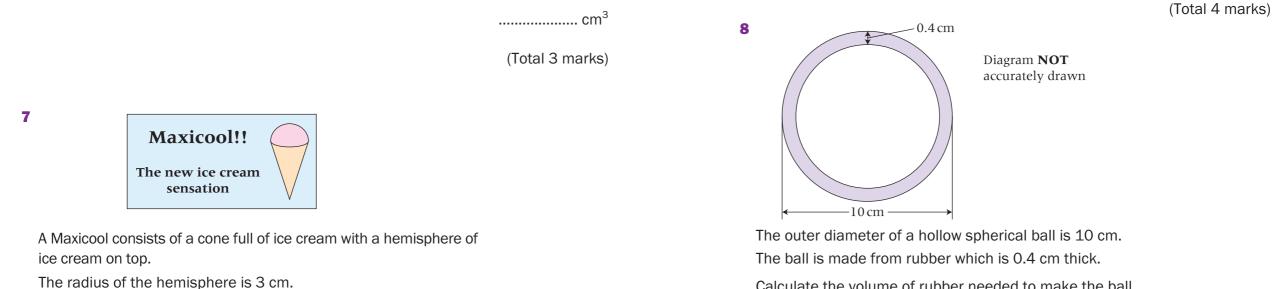
The radius of the base of the cone is 3 cm.

The height of the cone is 10 cm.



Calculate the total volume of ice cream in a Maxicool. Give your answer correct to 3 significant figures.

..... cm³

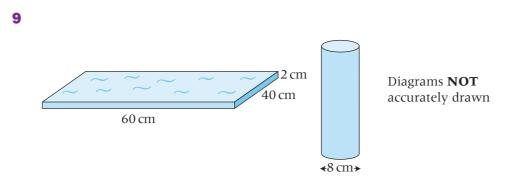


Calculate the volume of rubber needed to make the ball. Give your answer correct to 3 significant figures.

..... cm³

(Total 4 marks)





A rectangular tray has length 60 cm, width 40 cm and depth 2 cm. It is full of water.

The water is poured into an empty cylinder of diameter 8 cm.

Calculate the depth, in cm, of water in the cylinder. Give your answer correct to 3 significant figures.

..... cm

(Total 5 marks)