

3

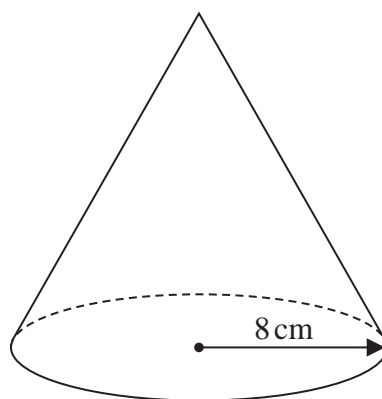


Diagram **NOT**
accurately drawn

Figure 1

Figure 1 shows a solid right circular cone.

The radius of the base of the cone is 8 cm.

The volume of the cone is $320\pi \text{ cm}^3$

The **total** surface area of the cone is $k\pi \text{ cm}^2$

Calculate the value of k

(5)

$$\left[\begin{array}{l} \text{Volume of a cone} = \frac{1}{3} \pi r^2 h \\ \text{Curved surface area of cone} = \pi r l \end{array} \right]$$



DO NOT WRITE IN THIS AREA

Question 3 continued

Handwriting practice area with horizontal dotted lines.

(Total for Question 3 is 5 marks)

