

3

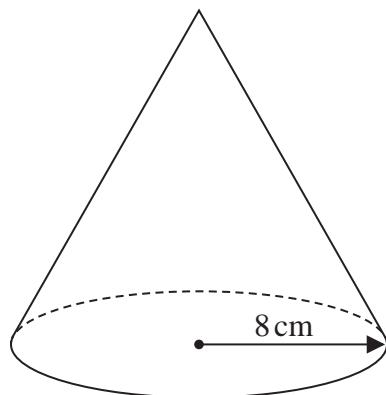


Diagram NOT
accurately drawn

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)

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

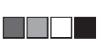


Question 3 continued

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P 7 2 4 8 0 A 0 7 3 6

(Total for Question 3 is 5 marks)