

14

16 Here is a sphere.

Surface area of sphere = $4\pi r^2$
 $\frac{3}{8}$ of the surface area of this sphere is $75\pi \text{ cm}^2$.

Find the diameter of the sphere.

Give your answer in the form $a\sqrt{b}$ where a is an integer and b is a prime number.

$$\frac{3}{8} (4\pi r^2) = 75\pi$$

$$\frac{12}{8} \pi r^2 = 75\pi$$

$$\frac{12}{8} r^2 = 75$$

$$12r^2 = 600$$

$$r^2 = 50$$

$$r = \sqrt{50}$$

$$d = 2\sqrt{50}$$

$$= 2 \times \sqrt{25 \times 2}$$

$$= 10\sqrt{2}$$

$$\begin{array}{r} 4 \\ 75 \times \\ \hline 600 \end{array}$$

$$10\sqrt{2} \text{ cm}$$

(Total for Question 16 is 4 marks)

15

Turn over >

17 Make x the subject of the formula: $y = \frac{4(2x-3)}{3x+2}$

$$16x - 2x = 20$$

$$14x = 20$$

$$7x = 10$$

$$x = \frac{10}{7}$$

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RJ Alexander



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important partner of the electric field the direction of electric current and magnetic field is given

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