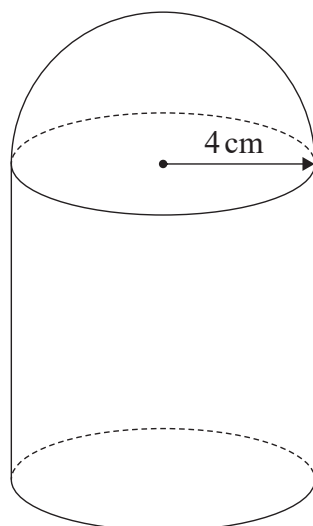**22**

4 cm

Diagram **NOT**
accurately drawn

The diagram shows a solid made by fixing a solid hemisphere of radius 4 cm on the flat circular top face of a solid cylinder of radius 4 cm.

The centre of the hemisphere coincides with the centre of the flat circular top face of the cylinder.

The total volume of the solid is $\dfrac{920}{3}\pi$ cm³

Find the total height, in cm, of the solid.

.... cm

(Total for Question 22 is 4 marks)