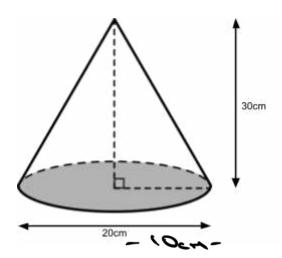
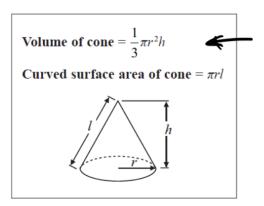


1. The diagram shows a cone.

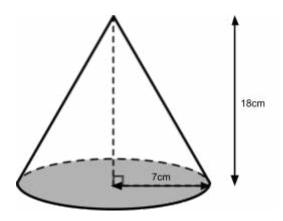


The base of the cone is 20cm.
The height of the cone is 30cm.
Work out the volume of the cone.
Give your answer correct to 3 significant figures.





#### 2. The diagram shows a cone.

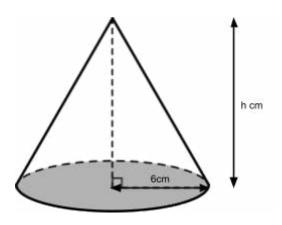


The radius of the cone is 7cm. The height of the cone is 18cm. Work out the volume of the cone. Give your answer in terms of  $\pi$ .

Volume of cone = 
$$\frac{1}{3}\pi r^2 h$$
  
Curved surface area of cone =  $\pi r l$ 



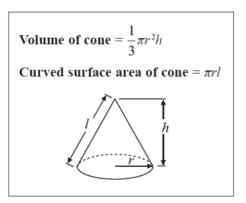
3. The diagram shows a cone with a volume of 180cm<sup>3</sup>.



The radius of the cone is 6cm.

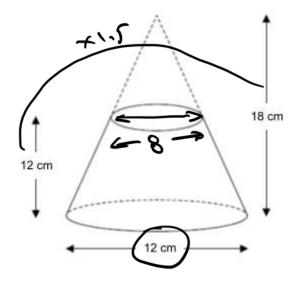
Work out the height of the cone.

Give your answer correct to 1 decimal place.

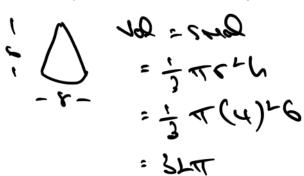




4. A frustum is made by removing a small cone from a large cone, as shown in the diagram.



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



Volume of cone = 
$$\frac{1}{3}\pi r^2 h$$
  
Curved surface area of cone =  $\pi rl$ 

190 60 ords cons

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= 278 cm3 = 278 cm3 = 278.0230 cm3 = 1844 =