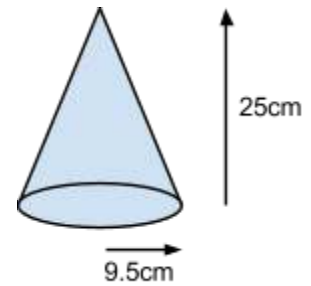


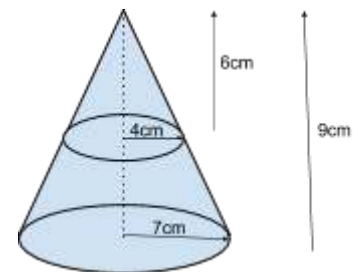
# QT Volumes of 3D shapes

1. A sphere has a radius of 6cm.  
Work out the volume of the sphere.  
Give your answer as a multiple of  $\pi$

2. A cone has a base radius of 9.5cm and a height of 25cm.  
Work out the volume of the cone.  
Give your answer correct to 3 significant figures.



3. A cone has 6cm cut off its top as shown.  
The shape that is left is called a 'frustrum.'  
Calculate the volume of the frustrum correct to 3 significant figures.



4. A clay bowl is in the shape of a hollow hemisphere.  
The external radius of the bowl is 10.4cm  
The internal radius of the bowl is 9.5cm.  
Work out the volume of clay in the bowl.  
Give your answer correct to 3 significant figures.

