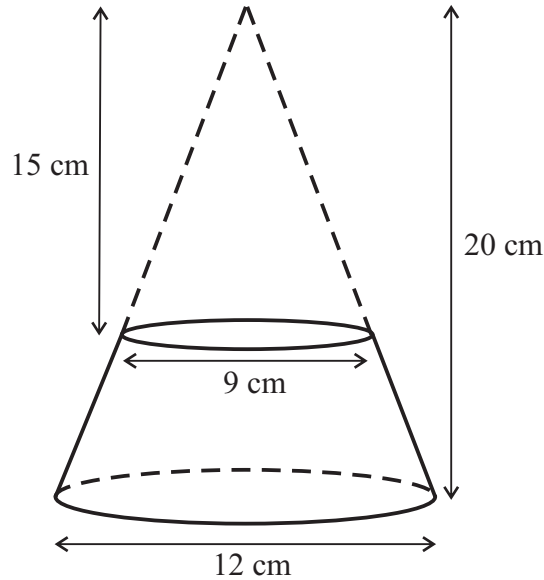


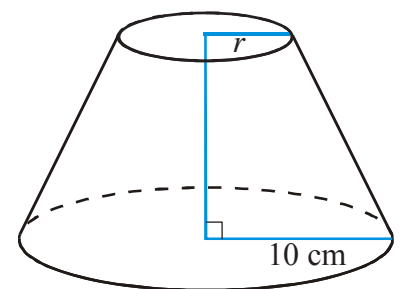
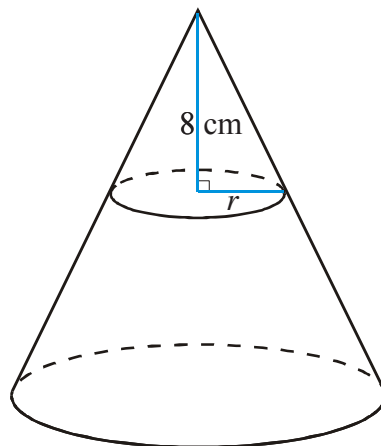
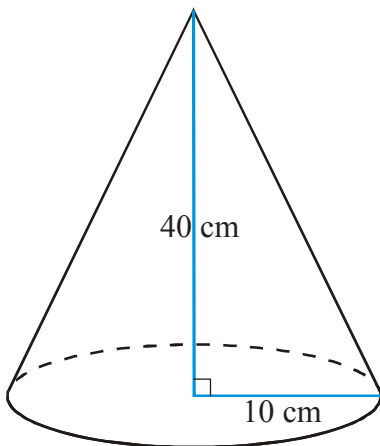


- 1) A frustum is made by removing a small cone from a similar larger cone.

Work out the volume of the frustum.



- 2) The diagram shows a cone of height 40 cm and base radius 10 cm. A smaller cone of height 8 cm is removed to form a frustum.



- a) Work out the radius  $r$  of the base of the smaller cone.

Calculate, to the nearest  $\text{cm}^3$

- b) The volume of the larger cone.  
c) The volume of the smaller cone.  
d) The volume of the frustum.