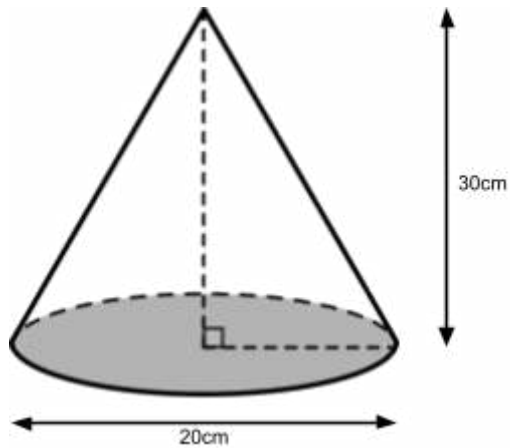


QT Volume of a Cone



1. The diagram shows a cone.



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

Curved surface area of cone = $\pi r l$

The base of the cone is 20cm.

The height of the cone is 30cm.

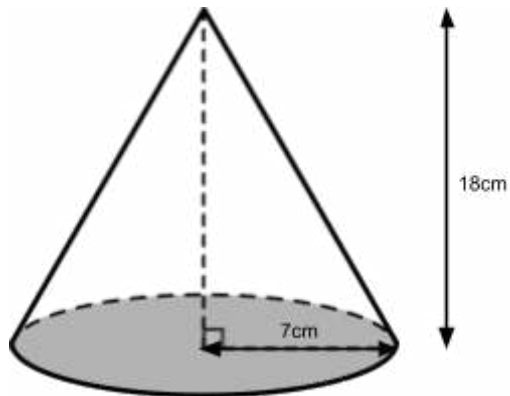
Work out the volume of the cone.

Give your answer correct to 3 significant figures.

QT Volume of a Cone



2. The diagram shows a cone.



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

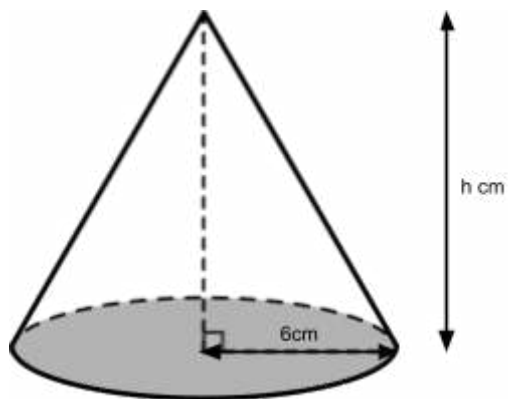
Curved surface area of cone = $\pi r l$

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 π .

QT Volume of a Cone



3. The diagram shows a cone with a volume of 180cm^3 .



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

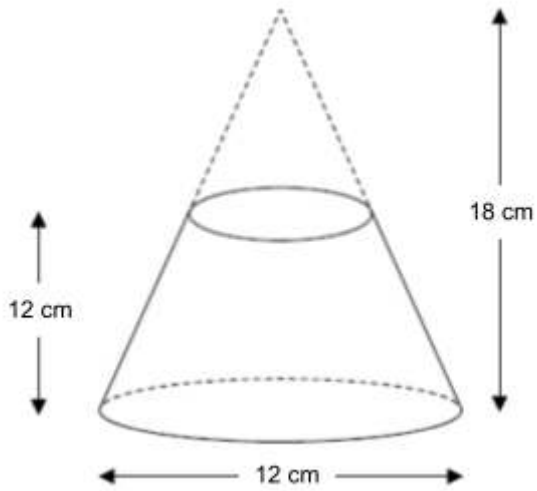
Curved surface area of cone $= \pi r l$

The radius of the cone is 6cm.
Work out the height of the cone.
Give your answer correct to 1 decimal place.

QT Volume of a Cone

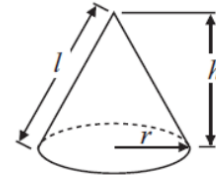


4. A frustum is made by removing a small cone from a large cone, as shown in the diagram.



$$\text{Volume of cone} = \frac{1}{3}\pi r^2 h$$

$$\text{Curved surface area of cone} = \pi r l$$



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