Name: _____

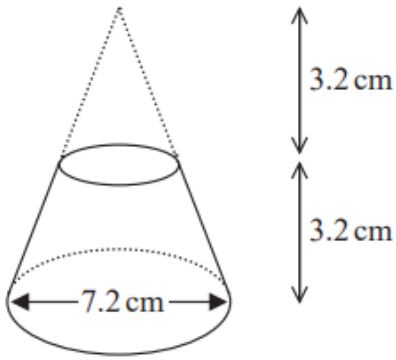
GCSE (1 - 9) Volume of a Frustum	Solutions:

These questions represent all of the times that this topic has appeared in unlocked Pearson Edexcel GCSE maths papers.

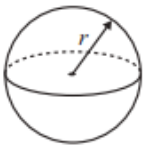
Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2018, Paper 2H, Q20

1

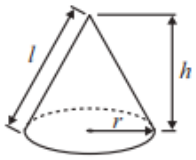
Here is a frustum of a cone.



Volume of sphere $= \frac{4}{3}\pi r^3$



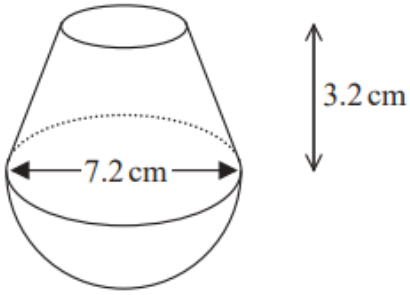
Volume of cone $= \frac{1}{3}\pi r^2 h$



The diagram shows that the frustum is made by removing a cone with height 3.2 cm from a solid cone with height 6.4 cm and base diameter 7.2 cm.

The frustum is joined to a solid hemisphere of diameter 7.2 cm to form the solid **S** shown below.

Solid **S**



The density of the frustum is 2.4 g/cm^3
The density of the hemisphere is 4.8 g/cm^3

Calculate the average density of solid **S**.

.....g/cm^3

[Edexcel, GCSE, Autumn 2018, Paper 2H, Q20]