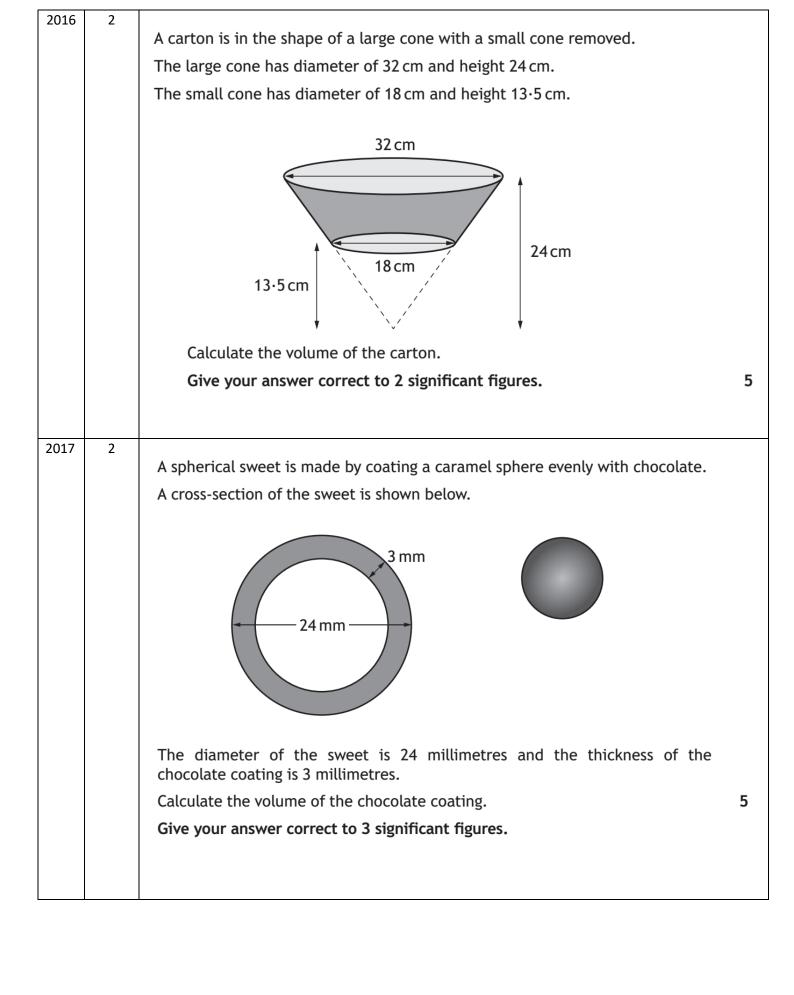
Volume								
YEAR	PAPER	QUESTION						
2014	2	An ornament is in the shape of a cone with diameter 8 centimetres and height 15 centimetres. The bottom contains a hemisphere made of copper with diameter 7.4 centimetres. The rest is made of glass, as shown in the diagram below.						
		copper 7.4 cm 8 cm Calculate the volume of the glass part of the ornament. Give your answer correct to 2 significant figures.	5					
2014	2	(a) The Earth is approximately spherical with a radius of 6400 kilometres. Calculate the volume of the Earth giving your answer in scientific notation, correct to 2 significant figures.	3					
		(b) The approximate volume of the Moon is 2·2 × 10 ¹⁰ cubic kilometres. Calculate how many times the Earth's volume is greater than the Moon's.	2					



2018	2	A toy company makes juggling balls in the shape of a sphere with a diameter of 6.4 centimetres.				
		← 6·4 cm ←				
		Calculate the volume of one juggling ball.	2			
		Give your answer correct to 2 significant figures.	3			
2019	2	A traffic bollard is in the shape of a cylinder with a hemisphere on top. The bollard has • diameter 24 centimetres • height 70 centimetres. 70 cm				
		Calculate the volume of the bollard.	5			
		Give your answer correct to 3 significant figures.	3			

