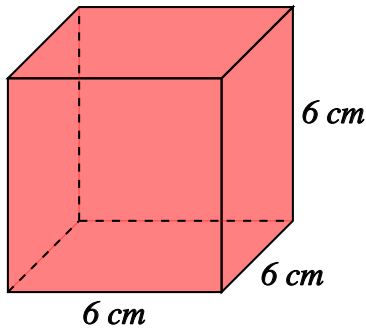


Volume of 3D shapes - advanced

Name:	Class:	Date:	
Mark		/ 12	%

1) Find the volume of the cube

[1]



2) A cuboid has a length, width and height of 4 cm, 5 cm and 9 cm, respectively. Find the volume of the cuboid.

[1]

3) Find the width of a cuboid, given that it has a length of 7 cm, height of 10 cm and volume of 490 cm^3

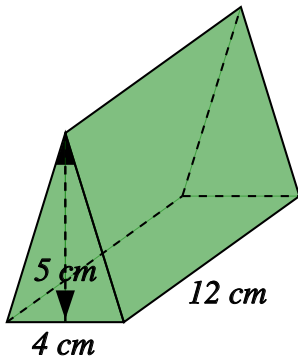
[1]

4) Find its length, given that the volume of a cube is 343 cm^3

[1]

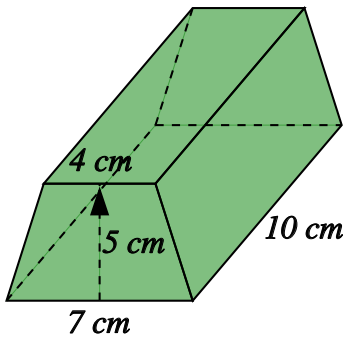
5) Find the volume of the triangular prism

[1]



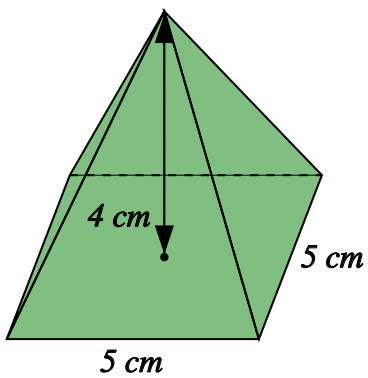
6) Find the volume of the trapezoidal prism

[1]



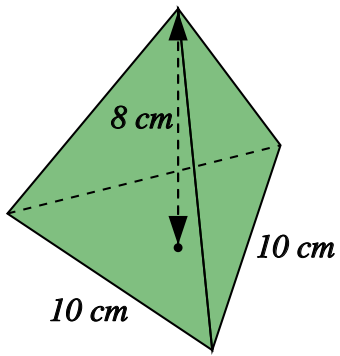
7) Find the volume of the square-based pyramid, rounding your answer to 3 significant figures

[1]



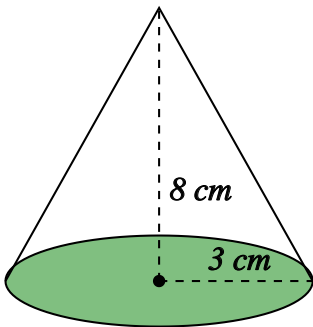
8) Find the volume of the tetrahedron, rounding your answer to 3 significant figures

[1]



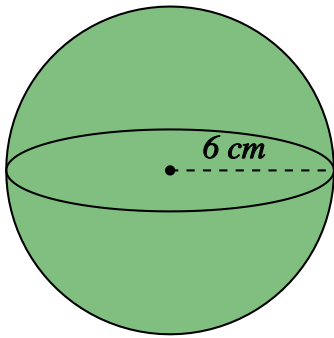
9) Find the volume of the cone, rounding your answer to 3 significant figures

[1]



10) Find the volume of the sphere, rounding your answer to 3 significant figures

[1]



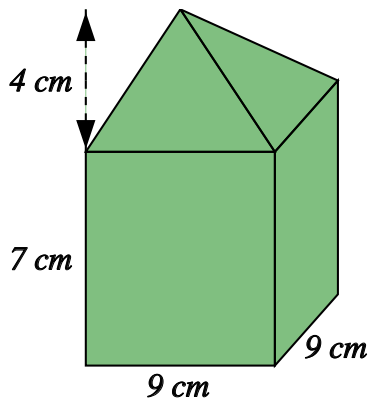
11) A hemisphere has a radius of 2 cm. Find its volume, rounding your answer to 3 significant figures. [1]

12) The solid shown below is a cuboid with a square-based pyramid on top.

[1]

The pyramid has a vertical height of 4 cm.

Find the volume of the solid, giving your answer to one decimal place where necessary.



Solutions for the assessment Volume of 3D shapes - advanced

1) Volume = 216 cm^3

2) Volume = 180 cm^3

3) width = 7 cm

4) Length = 7 cm

5) Volume = 120 cm^3

6) Volume = 275 cm^3

7) Volume = 33.3 cm^3

8) Volume = 115 cm^3

9) Volume = 75.4 cm^3

10) Volume = 905 cm^3

11) Volume = 16.8 cm^3

12) Volume = 675 cm^3