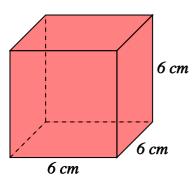
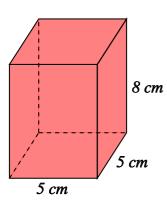
	Surface Area and Volume of 3D shapes - advanced			
Name:	Class:	Date:		
		Mark	/9	%

1) Find the volume and surface area of the cube



2) Find the volume and surface area of the cuboid

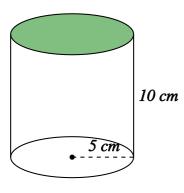


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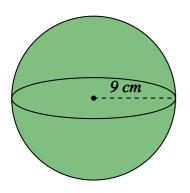
[1]

[1]

**3**) Find the volume and surface area of the cylinder, rounding your answers to 3 significant figures [1]

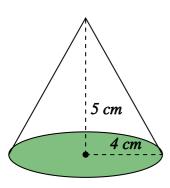


4) Find the volume and surface area of the sphere, rounding your answers to 3 significant figures [1]



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5) Find the volume and surface area of the solid cone, rounding your answers to 3 significant figures [1]



6) Find the volume of a cube, given that its surface area is 384 cm<sup>2</sup> [1]

7) Find the surface area of a cube, given that its volume is 512 cm<sup>3</sup> [1]

**8**) Find the volume of a sphere, given that its surface area is  $600 \text{ cm}^2$ , rounding your answer to 3 significant figures

**9**) Find the surface area of a sphere, given that its volume is 540 cm <sup>3</sup>, rounding your answer to 3 significant figures

[1]

[1]

## Solutions for the assessment Surface Area and Volume of 3D shapes - advanced

1) Volume = 216 cm $^3$ , Surface area = 216 cm $^2$	2) Volume = 200 cm $^3$ , Surface area = 210 cm $^2$
3) Volume = 785 cm $^3$ , Surface area = 471 cm $^2$	4) Volume = $3050 \text{ cm}^3$ , Surface area = $1020 \text{ cm}^2$
<b>5</b> ) Volume = $131 \text{ cm}^3$ , Surface area = $83.8 \text{ cm}^2$	<b>6</b> ) Volume = $512 \text{ cm}^3$
7) Surface area = $384$ cm $^2$	8) Volume = $1380 \text{ cm}^3$

**9**) Surface area =  $321 \text{ cm}^2$ 

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