**Surface Area and Volume of 3D shapes - non prism**

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| **1)** Find the volume and surface area of the cubehttp://www.mathster.com/course/simgs/13214907972_1.png       | [1]   |
| **2)** Find the volume and surface area of the cuboidhttp://www.mathster.com/course/simgs/13214907972_2.png       | [1]   |
| **3)** Find the volume and surface area of the cylinder, rounding your answers to 3 significant figureshttp://www.mathster.com/course/simgs/13214907972_3.png       | [1]   |
| **4)** Find the volume and surface area of the sphere, rounding your answers to 3 significant figureshttp://www.mathster.com/course/simgs/13214907972_4.png       | [1]   |
| **5)** Find the volume and surface area of the solid cone, rounding your answers to 3 significant figures.      http://www.mathster.com/course/simgs/13214907972_5.png | [1]   |
| **6)** Find the volume of a cube, given that its surface area is 600  $cm^{2}$       | [1]   |
| **7)** Find the surface area of a cube, given that its volume is 729  $cm^{3}$       | [1]   |
| **8)** Find the volume of a sphere, given that its surface area is 530  $cm^{2}$, rounding your answer to 3 significant figures       | [1]   |
| **9)** Find the surface area of a sphere, given that its volume is 110  $cm^{3}$, rounding your answer to 3 significant figures       | [1]   |

**Solutions for the assessment Surface Area and Volume of 3D shapes - non prism**

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| **1)** Volume = 1000  $cm^{3}$, Surface area = 600  $cm^{2}$ | **2)** Volume = 270  $cm^{3}$, Surface area = 294  $cm^{2}$ |
| **3)** Volume = 1570  $cm^{3}$, Surface area = 785  $cm^{2}$ | **4)** Volume = 524  $cm^{3}$, Surface area = 314  $cm^{2}$ |
| **5)** Volume = 20.9  $cm^{3}$, Surface area = 46.4  $cm^{2}$ | **6)** Volume = 1000  $cm^{3}$ |
| **7)** Surface area = 486  $cm^{2}$ | **8)** Volume = 1150  $cm^{3}$ |
| **9)** Surface area = 111  $cm^{2}$ |  |