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

|  |  |  |
| --- | --- | --- |
| Name : | Class : | Date : |

|  |  |  |
| --- | --- | --- |
| Mark : | /9 | % |

|  |  |
| --- | --- |
| **1)** Find the volume and surface area of the cubehttp://www.mathster.com/course/simgs/138022372058_1.png       | [1]   |
| **2)** Find the volume and surface area of the cuboidhttp://www.mathster.com/course/simgs/138022372058_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/138022372058_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/138022372058_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/138022372058_5.png | [1]   |
| **6)** Find the volume of a cube, given that its surface area is 96  $cm^{2}$       | [1]   |
| **7)** Find the surface area of a cube, given that its volume is 343  $cm^{3}$       | [1]   |
| **8)** Find the volume of a sphere, given that its surface area is 130  $cm^{2}$, rounding your answer to 3 significant figures       | [1]   |
| **9)** Find the surface area of a sphere, given that its volume is 970  $cm^{3}$, rounding your answer to 3 significant figures       | [1]   |

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

|  |  |
| --- | --- |
| **1)** Volume = 125  $cm^{3}$, Surface area = 150  $cm^{2}$ | **2)** Volume = 640  $cm^{3}$, Surface area = 448  $cm^{2}$ |
| **3)** Volume = 6360  $cm^{3}$, Surface area = 1920  $cm^{2}$ | **4)** Volume = 2140  $cm^{3}$, Surface area = 804  $cm^{2}$ |
| **5)** Volume = 105  $cm^{3}$, Surface area = 179  $cm^{2}$ | **6)** Volume = 64  $cm^{3}$ |
| **7)** Surface area = 294  $cm^{2}$ | **8)** Volume = 139  $cm^{3}$ |
| **9)** Surface area = 474  $cm^{2}$ |  |