**Volume of 3D shapes - basics**

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

|  |  |  |
| --- | --- | --- |
| Mark : | /10 | % |

|  |  |
| --- | --- |
| **1)** The solid shape shown below is made from cubes of side one centimetre. Find the volume of the solid.   http://www.mathster.com/course/simgs/39644714655_1.png | [1] |
| **2)** Find the volume of the cuboid, given that the area of the base is 20   and the height is 7 cm   http://www.mathster.com/course/simgs/39644714655_2.png | [1] |
| **3)** Find the volume of the cuboid   http://www.mathster.com/course/simgs/39644714655_3.png | [1] |
| **4)** A cube has a length of 27 cm. Find its volume. | [1] |
| **5)** Find the missing dimension, given that the volume of the cuboid is 180     http://www.mathster.com/course/simgs/39644714655_4.png | [1] |
| **6)** Find its length, given that the volume of a cube is 54872 | [1] |
| **7)** Find the volume of the triangular prism, given that the cross-sectional area is 4   and the length is 13 cm          http://www.mathster.com/course/simgs/39644714655_5.png | [1] |
| **8)** Find the volume of the triangular prism          http://www.mathster.com/course/simgs/39644714655_6.png | [1] |
| **9)** Find the volume of the cylinder, rounding your answer to 3 significant figures   http://www.mathster.com/course/simgs/39644714655_7.png | [1] |
| **10)** Find the volume of the trapezoidal prism   http://www.mathster.com/course/simgs/39644714655_8.png | [1] |

**Solutions for the assessment Volume of 3D shapes - basics**

|  |  |
| --- | --- |
| **1)** Volume = 75 | **2)** Volume = 140 |
| **3)** Volume = 30 | **4)** Volume = 19683 |
| **5)**   = 9 cm | **6)** Length = 38 cm |
| **7)** Volume = 52 | **8)** Volume = 66 |
| **9)** 1540 | **10)** Volume = 588 |