**Volume of 3D shapes - basics**

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| **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  $cm^{2}$ and the height is 7 cmhttp://www.mathster.com/course/simgs/39644714655_2.png       | [1]   |
| **3)** Find the volume of the cuboidhttp://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  $cm^{3}$http://www.mathster.com/course/simgs/39644714655_4.png       | [1]   |
| **6)** Find its length, given that the volume of a cube is 54872  $cm^{3}$       | [1]   |
| **7)** Find the volume of the triangular prism, given that the cross-sectional area is 4  $cm^{2}$ 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 figureshttp://www.mathster.com/course/simgs/39644714655_7.png      | [1]   |
| **10)** Find the volume of the trapezoidal prismhttp://www.mathster.com/course/simgs/39644714655_8.png      | [1]   |

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

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