**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/85162720544_1.png       | [1]   |
| **2)** Find the volume of the cuboid, given that the area of the base is 32  $cm^{2}$ and the height is 3 cmhttp://www.mathster.com/course/simgs/85162720544_2.png       | [1]   |
| **3)** Find the volume of the cuboidhttp://www.mathster.com/course/simgs/85162720544_3.png       | [1]   |
| **4)** A cube has a length of 35 cm. Find its volume.       | [1]   |
| **5)** Find the missing dimension, given that the volume of the cuboid is 160  $cm^{3}$http://www.mathster.com/course/simgs/85162720544_4.png       | [1]   |
| **6)** Find its length, given that the volume of a cube is 19683  $cm^{3}$       | [1]   |
| **7)** Find the volume of the triangular prism, given that the cross-sectional area is 3  $cm^{2}$ and the length is 12 cm      http://www.mathster.com/course/simgs/85162720544_5.png | [1]   |
| **8)** Find the volume of the triangular prism      http://www.mathster.com/course/simgs/85162720544_6.png | [1]   |
| **9)** Find the volume of the cylinder, rounding your answer to 3 significant figureshttp://www.mathster.com/course/simgs/85162720544_7.png      | [1]   |
| **10)** Find the volume of the trapezoidal prismhttp://www.mathster.com/course/simgs/85162720544_8.png      | [1]   |

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

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| **1)** Volume = 75  $cm^{3}$ | **2)** Volume = 96  $cm^{3}$ |
| **3)** Volume = 300  $cm^{3}$ | **4)** Volume = 42875  $cm^{3}$ |
| **5)**  $x$ = 2 cm | **6)** Length = 27 cm |
| **7)** Volume = 36  $cm^{3}$ | **8)** Volume = 45  $cm^{3}$ |
| **9)** 4020  $cm^{3}$ | **10)** Volume = 110  $cm^{3}$ |