**Volumes of prisms** [Answers are at the end of this unit]

This unit uses the idea that the volume of a shape can be worked out from the fact that V = Ah, where A is cross sectional area of a shape and h is the length.

This unit requires the use of the formula A = $\frac{1}{2}absinC$ to work out the area of the front face.

Calculate the volume of each of the prisms shown below.





**Calculate the volume of each of the prisms shown below.**





**Calculate the volume of each of the prisms shown below.**





**Calculate the volume of each of the prisms shown below.**



**Answers**

|  |  |
| --- | --- |
| **Page** | **Questions** |
| 1 | 1. (a) 152.2 (b) 1978.2 2. (a) 314.4 (b) 4715.5 3. (a) 42.4 (b) 551.74. (a) 30.1 (b) 285.9 5. (a) 70.9 (b) 850.6 6. (a) 46.7 (b) 219.4  |
| 2 | 1. (a) 91.4 (b) 292.5 2. (a) 127.5 (b) 1912.5 3. (a) 45.7 (b) 196.54. (a) 59.4 (b) 178.3 5. (a) 36.7 (b) 190.8 6. (a) 84.8 (b) 678.67. (a) 53.8 (b) 731.5   |
| 3 | 1. (a) 127.3 (b) 381.9 2. (a) 153.9 (b) 1262.2 3. (a) 101.8 (b) 448.04. (a) 73.5 (b) 301.1 5. (a) 126.8 (b) 570.4 6. (a) 95.3 (b) 257.2 |
| 4 | 1. (a) 54.3 (b) 461.3 2. (a) 144.0 (b) 1728.1 3. (a) 34.7 (b) 225.3 |