<table>
<tr><th colspan="3">Question</th><th>Answer</th><th>Marks</th><th>Part marks and guidance</th><th></th></tr>
<tr><td>6</td><td>(a)</td><td></td><td>40 (cm)</td><td>2
1 AO1.3a
1 AO3.1a</td><td>M1 for 4 × their ‘$\sqrt{100}$’</td><td></td></tr>
<tr><td></td><td>(b)</td><td></td><td>Correct working leading to 4 cm</td><td>4
1 AO1.3b
2 AO2.2
1 AO2.4a</td><td>B1 for area of triangle is 24
B1 for their ‘24’ × 3
B1 for their ‘72’ ÷ 18
or area of parallelogram = 18h</td><td></td></tr>
<tr><td>7</td><td>(a)</td><td></td><td>54</td><td>1
1 AO3.1a</td><td></td><td></td></tr>
<tr><td></td><td>(b)</td><td></td><td>5</td><td>2
1 AO1.1
1 AO3.1a</td><td>M1 for a complete factor tree oe</td><td></td></tr>
<tr><td>8</td><td>(a)</td><td></td><td>8</td><td>3
2 AO1.3a
1 AO3.1b</td><td>M1 for dividing by 3 or 13
M1 for dividing by remaining factor</td><td>M1 for multiplying 3 by 13
M1 for dividing by 39 or listing multiples of 39</td></tr>
<tr><td></td><td>(b)</td><td></td><td>Any three valid answers
e.g. 2, 7, 23</td><td>3
1 AO1.1
2 AO3.1a</td><td>B1 for each

If 0 scored, instead award
SC1 for at least 3 primes and 3 squares seen</td><td></td></tr>
<tr><td>9</td><td>(a)</td><td></td><td>
<table>
<tr><th>Prism</th><th>Number of faces</th><th>Number of edges</th><th>Number of vertices</th></tr>
<tr><td>Triangular (3 sides)</td><td>5</td><td>9</td><td>6</td></tr>
<tr><td>Rectangular (4 sides)</td><td>6</td><td>12</td><td>8</td></tr>
<tr><td>Pentagonal (5 sides)</td><td>7</td><td>15</td><td>10</td></tr>
<tr><td>Hexagonal (6 sides)</td><td>8</td><td>18</td><td>12</td></tr>
</table>
</td><td>2
1 AO1.1
1 AO2.1a</td><td>B1 for 2 correct</td><td></td></tr>
<tr><td></td><td>(b)</td><td></td><td>300 (edges)
200 (vertices)</td><td>1
1
2 AO2.1a</td><td></td><td></td></tr>
</table>