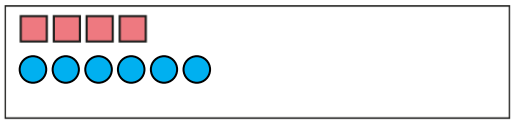
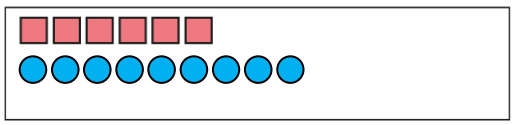
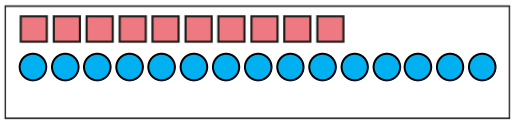
Y6 – Spring – Block 1 – Step 8 – Ratio problems Answers

<table>
<tr><th>Question</th><th>Answer</th></tr>
<tr><td>1</td><td>a) 
b) 
c) 
d) 
Each time the number of squares goes up by 2, the number of circles goes up by 3</td></tr>
<tr><td>2</td><td><table><tr><th>Red counters</th><th>Green counters</th></tr><tr><td>3</td><td>6</td></tr><tr><td>6</td><td>12</td></tr><tr><td>9</td><td>18</td></tr><tr><td>15</td><td>30</td></tr><tr><td>30</td><td>60</td></tr><tr><td>40</td><td>80</td></tr><tr><td>200</td><td>400</td></tr></table>The number of green counters is twice the number of red counters.
Each time the number of squares goes up by 3, the number of circles goes up by 6</td></tr>
<tr><td>3</td><td>48</td></tr>
<tr><td>4</td><td>a) 40
b) 3</td></tr>
<tr><td>5</td><td>a) 12
b) 4.5
c) 12</td></tr>
<tr><td>6</td><td>8</td></tr>
<tr><td>7</td><td>14
Before Amir removes the counters:
• there are 21 more red counters than green counters
• the ratio of red counters to green counters is 5 : 2
5 − 2 = 3 parts = 21, so 1 part = 7
2 × 7 = 14</td></tr>
</table>

Y6 – Spring – Block 1 – Step 8 – Ratio problems Answers (continued)

Question	Answer
8	330p or £3.30