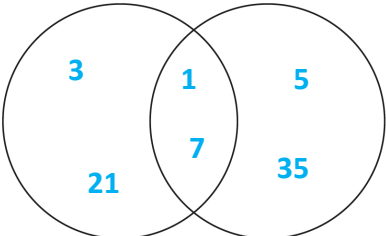


Y5 – Autumn – Block 3 – Step 4 – Common factors Answers

Question	Answer
1	a) 1, 2, 9, 18 b) 3, 6 c) 1, 3, 9, 27 d) 1, 3, 9 They are factors of both numbers.
2	a) The factors of 24 are 1, 2, 3, 4, 6, 8, 12, 24 The factors of 36 are 1, 2, 3, 4, 6, 9, 12, 18, 36 The common factors of 24 and 36 are 1, 2, 3, 4, 6, 12 b) The factors of 30 are 1, 2, 3, 5, 6, 10, 15, 30 The factors of 45 are 1, 3, 5, 9, 15, 45 The common factors of 24 and 36 are 1, 3, 5, 15
3	a) <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;"> <p>factors of 21</p>  </div> <div style="text-align: center;"> <p>factors of 35</p> </div> </div> b) 1, 7 c) The common factors are in the intersection of the two circles.
4	a) 1, 5 b) 1
5	<div style="display: flex; justify-content: space-around; align-items: flex-start; margin-bottom: 10px;"> <div style="text-align: center;">2 and 6</div> <div style="text-align: center; border: 1px solid blue; border-radius: 50%; padding: 2px;">3 and 8</div> <div style="text-align: center;">15 and 12</div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center; border: 1px solid blue; border-radius: 50%; padding: 2px;">9 and 11</div> <div style="text-align: center;">49 and 21</div> <div style="text-align: center; border: 1px solid blue; border-radius: 50%; padding: 2px;">15 and 22</div> </div> The common factor is 1 At least one of the numbers is odd.
6	Yes 36 is a factor of 72, so all the factors of 36 must also be factors of 72
7	a) 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60 b) 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84 c) 12
8	a) boxes holding 2, 3, 4 or 6 cakes b) boxes holding 2, 3, 5, 6 or 10 cakes c) boxes holding 2, 3 or 6 cakes They can both use boxes with common factors of 24 and 30
9	72 and 80