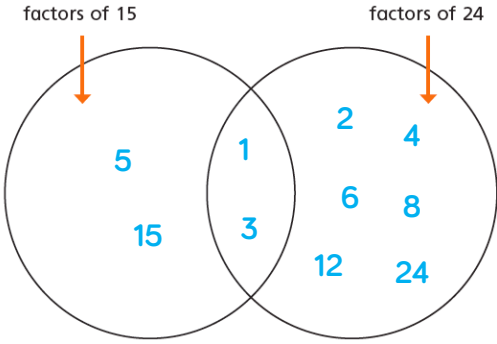
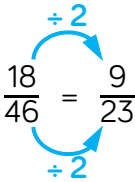


Y6 – Autumn – Block 2 – Step 9 – Common factors Answers

Question	Answer																		
1	a) 1, 2, 3, 6, 9, 18 b) 1, 2, 3, 4, 6, 8, 12, 24 c) 1, 2, 3, 6																		
2	 <p>factors of 15: 5, 15</p> <p>factors of 24: 2, 4, 6, 8, 12, 24</p> <p>Intersection: 1, 3</p>																		
3	a) 1, 2, 4 b) 1 c) 1, 2, 5, 10 d) 1, 2, 4, 5, 10, 20																		
4	<table border="1" data-bbox="211 913 886 1193"> <thead> <tr> <th>Factor pairs of 50</th> <th>Factor pairs of 75</th> <th>Factor pairs of 100</th> </tr> </thead> <tbody> <tr> <td>1 × 50</td> <td>1 × 75</td> <td>1 × 100</td> </tr> <tr> <td>2 × 25</td> <td>3 × 25</td> <td>2 × 50</td> </tr> <tr> <td>5 × 10</td> <td>5 × 15</td> <td>4 × 25</td> </tr> <tr> <td></td> <td></td> <td>5 × 20</td> </tr> <tr> <td></td> <td></td> <td>10 × 10</td> </tr> </tbody> </table> <p>b) 1, 5, 25</p>	Factor pairs of 50	Factor pairs of 75	Factor pairs of 100	1 × 50	1 × 75	1 × 100	2 × 25	3 × 25	2 × 50	5 × 10	5 × 15	4 × 25			5 × 20			10 × 10
Factor pairs of 50	Factor pairs of 75	Factor pairs of 100																	
1 × 50	1 × 75	1 × 100																	
2 × 25	3 × 25	2 × 50																	
5 × 10	5 × 15	4 × 25																	
		5 × 20																	
		10 × 10																	
5	60, 90, 180																		
6	No. If she puts 5 sweets and 5 balloons in each bag, she will make 5 bogs, but she will have 10 sweets left over. She can make 5 bags, with 7 sweets and 5 balloons in each bag.																		
7	70																		
8	Identify a common factor and divide both the top and bottom by this factor, e.g. 18: 1, 2, 3, 6, 9, 18 46: 1, 2, 23, 46  $\frac{18}{46} = \frac{9}{23}$ <p>Dividing both 18 and 46 by 2 results in 9 and 23.</p>																		