

Question	Answer																				
1	a) 3 b) 3 The answers are the same. c) $18 \div 6 = 18 \div 3 \div 2$																				
2	$24 \div 8 = 24 \div 2 \div 4$ $24 \div 2 \div 4 = 3$ So $24 \div 8 = 3$																				
3	a) $16 \div 2 \div 4$ or $16 \div 4 \div 2$ b) $27 \div 3 \div 3$ c) $32 \div 2 \div 2$ d) $40 \div 2 \div 2 \div 2$ Children's factors should be the same, although they may have written the factors the opposite way round in part a).																				
4	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p style="text-align: center;">Esther</p> $176 \div 2 = 88$ $88 \div 4 = 22$ So $176 \div 8 = 22$ </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p style="text-align: center;">Huan</p> $176 \div 4 = 44$ $44 \div 2 = 22$ So $176 \div 8 = 22$ </div> </div> <p>Esther and Huan used the factors in a different order, but their answers are the same.</p>																				
5	a) 171 b) 66 c) 62 d) 95																				
6	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Method 1</p> </div> <div style="width: 45%;"> <p>Method 3</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>Method 2</p> <p>Factor pair of 6: 2 and 3</p> $672 \div 2 = 336$ $336 \div 3 = 112$ </div> <div style="width: 45%;"> <p>Method 4</p> <table border="1" style="border-collapse: collapse; text-align: center; width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1</td><td>1</td><td>2</td></tr> <tr><td>6</td><td>6</td><td>7</td><td>1</td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table> </div> </div> <p>Children need to justify why they prefer one method to the others.</p> <p>b) 107 1,142 52 2,214</p>								1	1	2	6	6	7	1	2					
		1	1	2																	
6	6	7	1	2																	

Y5 – Spring – Block 1 – Step 10 – Efficient division Answers (continued)

Question	Answer							
7	Divisible by 2		Divisible by 3		Divisible by 5		Divisible by 6	
	364 990 366 2,412 666 5,310	363 990 366 999 666 2,412 5,310	365 990 5,310	366 990 666 2,412 5,310	Most of the numbers go in more than one column. 990 and 5,310 go in all of the columns. All the numbers that are divisible by 6 are also divisible by both 2 and 3			
8	a) 300 b) 40 c) 30 d) 404							
9	a) $4,896 \div 1$ $4,896 \div 2$ $4,896 \div 3$ $4,896 \div 4$ $4,896 \div 6$ $4,896 \div 8$ $4,896 \div 9$ b) There are seven solutions with no remainder and two solutions with a remainder, so there are fewer solutions that have a remainder.							