

Y4 – Autumn – Block 2 – Add two 4-digit numbers – one exchange Answers

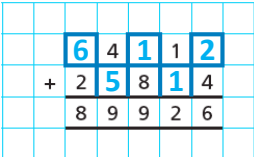
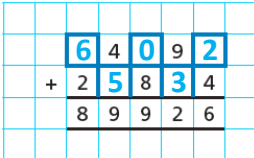
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1	<p>a) 5,659                      b) 5,661                      c) In part b), 10 ones needed to be exchanged for 1 ten. Part a) was easier because there were no exchanges.                      d) 10 counters in one column need to be exchanged for 1 counter in the next column to the left.</p>																																																																																																																																												
2	<p>a) 6,982                      b) 6,975                      c) 6,955                      d) 5,177</p>																																																																																																																																												
3	<p>a) <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th><th></th><th></th></tr> </thead> <tbody> <tr><td></td><td>5</td><td>1</td><td>6</td><td>3</td><td></td><td></td></tr> <tr><td>+</td><td>2</td><td>4</td><td>5</td><td>1</td><td></td><td></td></tr> <tr><td></td><td><b>7</b></td><td><b>6</b></td><td><b>1</b></td><td><b>4</b></td><td></td><td></td></tr> <tr><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr> </tbody> </table></p> <p>b) <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th><th></th><th></th></tr> </thead> <tbody> <tr><td></td><td>7</td><td>2</td><td>6</td><td>1</td><td></td><td></td></tr> <tr><td>+</td><td>1</td><td>0</td><td>2</td><td>9</td><td></td><td></td></tr> <tr><td></td><td><b>8</b></td><td><b>2</b></td><td><b>9</b></td><td><b>0</b></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td></tr> </tbody> </table></p> <p>c) <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th><th></th><th></th></tr> </thead> <tbody> <tr><td></td><td></td><td>7</td><td>0</td><td>3</td><td></td><td></td></tr> <tr><td>+</td><td>2</td><td>5</td><td>8</td><td>0</td><td></td><td></td></tr> <tr><td></td><td><b>3</b></td><td><b>2</b></td><td><b>8</b></td><td><b>3</b></td><td></td><td></td></tr> <tr><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr> </tbody> </table></p> <p>d) <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th><th></th><th></th></tr> </thead> <tbody> <tr><td></td><td>3</td><td>5</td><td>0</td><td>8</td><td></td><td></td></tr> <tr><td>+</td><td>2</td><td>7</td><td>3</td><td>1</td><td></td><td></td></tr> <tr><td></td><td><b>6</b></td><td><b>2</b></td><td><b>3</b></td><td><b>9</b></td><td></td><td></td></tr> <tr><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr> </tbody> </table></p>		Th	H	T	O				5	1	6	3			+	2	4	5	1				<b>7</b>	<b>6</b>	<b>1</b>	<b>4</b>					1						Th	H	T	O				7	2	6	1			+	1	0	2	9				<b>8</b>	<b>2</b>	<b>9</b>	<b>0</b>						1					Th	H	T	O					7	0	3			+	2	5	8	0				<b>3</b>	<b>2</b>	<b>8</b>	<b>3</b>					1						Th	H	T	O				3	5	0	8			+	2	7	3	1				<b>6</b>	<b>2</b>	<b>3</b>	<b>9</b>					1				
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4	<p>Alex                      Rosie has written the total of 3 + 8 in the tens column, instead of carrying 1 hundred to the hundreds column.                      Jack has not written down the '1' under the hundreds column.                      Teddy has not lined the digits up correctly.</p>																																																																																																																																												
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4	No exchange needed	One exchange	More than one exchange																																							
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5	a) 5,725 b) No, he has 7,620 points.																																									
6	a) <table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>3</td><td>7</td><td>3</td><td>9</td></tr> <tr><td>+</td><td>3</td><td>1</td><td>8</td><td>6</td></tr> <tr><td></td><td>6</td><td>9</td><td>2</td><td>5</td></tr> </tbody> </table>				Th	H	T	O		3	7	3	9	+	3	1	8	6		6	9	2	5																			
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c) multiple possible answers, e.g.: <table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>2</td><td>2</td><td>1</td><td>6</td></tr> <tr><td>+</td><td>3</td><td>9</td><td>6</td><td>6</td></tr> <tr><td></td><td>6</td><td>1</td><td>8</td><td>2</td></tr> </tbody> </table> <table border="1" style="display: inline-table;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>2</td><td>4</td><td>1</td><td>5</td></tr> <tr><td>+</td><td>3</td><td>7</td><td>6</td><td>7</td></tr> <tr><td></td><td>6</td><td>1</td><td>8</td><td>2</td></tr> </tbody> </table> <p>The two digits in the hundreds columns must sum to 11, and the two digits in the ones column must sum to 12</p>				Th	H	T	O		2	2	1	6	+	3	9	6	6		6	1	8	2		Th	H	T	O		2	4	1	5	+	3	7	6	7		6	1	8	2
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3	<p>a) 37,568 b) 37,573 c) 38,091 d) 12,245</p>																																																																																																																																							
4	<p>a)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td>£</td><td>3</td><td>6</td><td>0</td><td>0</td><td>0</td></tr> <tr><td></td><td>+</td><td>£</td><td>1</td><td>9</td><td>4</td><td>2</td><td>0</td></tr> <tr><td></td><td></td><td>£</td><td><u>5</u></td><td><u>5</u></td><td><u>4</u></td><td><u>2</u></td><td><u>0</u></td></tr> <tr><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr> </table> <p>b)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td>4</td><td>0</td><td>7</td><td>2</td><td>0</td><td>g</td></tr> <tr><td></td><td>+</td><td>6</td><td>8</td><td>7</td><td>2</td><td>g</td><td></td></tr> <tr><td></td><td></td><td><u>4</u></td><td><u>7</u></td><td><u>5</u></td><td><u>9</u></td><td><u>2</u></td><td><u>g</u></td></tr> <tr><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr> </table> <p>c)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td></td><td>8</td><td>4</td><td>3</td><td>cm</td></tr> <tr><td></td><td>+</td><td>1</td><td>5</td><td>6</td><td>1</td><td>1</td><td>cm</td></tr> <tr><td></td><td></td><td><u>1</u></td><td><u>6</u></td><td><u>4</u></td><td><u>5</u></td><td><u>4</u></td><td><u>cm</u></td></tr> <tr><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr> </table> <p>d)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td>£</td><td>1</td><td>7</td><td>3</td><td>2</td><td>0</td></tr> <tr><td></td><td>+</td><td>£</td><td>6</td><td>0</td><td>0</td><td>9</td><td></td></tr> <tr><td></td><td></td><td>£</td><td><u>3</u></td><td><u>4</u></td><td><u>8</u></td><td><u>7</u></td><td><u>1</u></td></tr> <tr><td></td><td></td><td>£</td><td><u>5</u></td><td><u>8</u></td><td><u>2</u></td><td><u>0</u></td><td><u>0</u></td></tr> <tr><td></td><td></td><td></td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></tr> </table>			£	3	6	0	0	0		+	£	1	9	4	2	0			£	<u>5</u>	<u>5</u>	<u>4</u>	<u>2</u>	<u>0</u>				1							4	0	7	2	0	g		+	6	8	7	2	g				<u>4</u>	<u>7</u>	<u>5</u>	<u>9</u>	<u>2</u>	<u>g</u>				1								8	4	3	cm		+	1	5	6	1	1	cm			<u>1</u>	<u>6</u>	<u>4</u>	<u>5</u>	<u>4</u>	<u>cm</u>				1							£	1	7	3	2	0		+	£	6	0	0	9				£	<u>3</u>	<u>4</u>	<u>8</u>	<u>7</u>	<u>1</u>			£	<u>5</u>	<u>8</u>	<u>2</u>	<u>0</u>	<u>0</u>				1	1	1	1	
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5	match 3																																																																																																																																							

Y5 – Autumn – Block 2 – Add whole numbers with more than 4 digits (column method) Answers  
(continued)

Question	Answer
6	<p>a) </p> <p>b) </p>
7	<p>a) 265            b) 8,974            c) 9,128</p>
8	<p>Dexter has not added the 1 digit that has been exchanged from the previous column.            Eva has not lined up the digits correctly.</p>

Y4 - Autumn - Block 2 - Subtract two 4-digit numbers - one exchange Answers

Question	Answer																																																																																
1	a) 2,220 b) 2,219 c) Part a) was easier because we do not need to do an exchange. d) We need to do an exchange.																																																																																
2	1 ten can be exchanged for <b>10</b> ones. 1 hundred can be exchanged for 10 <b>tens</b> . 1 thousand can be exchanged for <b>10 hundreds</b> .																																																																																
3	a) <table border="1"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>3</td><td><del>1</del></td><td><sup>1</sup>7</td><td></td></tr> <tr><td></td><td>-</td><td>1</td><td>1</td><td>9</td><td></td></tr> <tr><td></td><td></td><td><b>2</b></td><td><b>0</b></td><td><b>8</b></td><td></td></tr> </table> b) <table border="1"> <tr><td></td><td></td><td>Th</td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>7</td><td>6</td><td><del>6</del></td><td><sup>1</sup>3</td><td></td></tr> <tr><td></td><td>-</td><td></td><td>1</td><td>3</td><td>4</td><td></td></tr> <tr><td></td><td></td><td><b>7</b></td><td><b>5</b></td><td><b>3</b></td><td><b>9</b></td><td></td></tr> </table> c) <table border="1"> <tr><td></td><td></td><td>Th</td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>9</td><td>8</td><td><del>3</del></td><td><sup>1</sup>5</td><td></td></tr> <tr><td></td><td>-</td><td>6</td><td>2</td><td>1</td><td>6</td><td></td></tr> <tr><td></td><td></td><td><b>3</b></td><td><b>6</b></td><td><b>2</b></td><td><b>9</b></td><td></td></tr> </table>			H	T	O				3	<del>1</del>	<sup>1</sup> 7			-	1	1	9				<b>2</b>	<b>0</b>	<b>8</b>				Th	H	T	O				7	6	<del>6</del>	<sup>1</sup> 3			-		1	3	4				<b>7</b>	<b>5</b>	<b>3</b>	<b>9</b>				Th	H	T	O				9	8	<del>3</del>	<sup>1</sup> 5			-	6	2	1	6				<b>3</b>	<b>6</b>	<b>2</b>	<b>9</b>	
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4	a) <table border="1"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td><del>2</del></td><td><sup>1</sup>2</td><td>7</td><td></td></tr> <tr><td></td><td>-</td><td>1</td><td>3</td><td>2</td><td></td></tr> <tr><td></td><td></td><td><b>1</b></td><td><b>9</b></td><td><b>5</b></td><td></td></tr> </table> b) <table border="1"> <tr><td></td><td></td><td>Th</td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>7</td><td><del>5</del></td><td><sup>1</sup>7</td><td>3</td><td></td></tr> <tr><td></td><td>-</td><td></td><td>2</td><td>8</td><td>1</td><td></td></tr> <tr><td></td><td></td><td><b>7</b></td><td><b>3</b></td><td><b>9</b></td><td><b>2</b></td><td></td></tr> </table> c) <table border="1"> <tr><td></td><td></td><td>Th</td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>9</td><td><del>7</del></td><td><sup>1</sup>4</td><td>5</td><td></td></tr> <tr><td></td><td>-</td><td>2</td><td>3</td><td>6</td><td>0</td><td></td></tr> <tr><td></td><td></td><td><b>7</b></td><td><b>4</b></td><td><b>8</b></td><td><b>5</b></td><td></td></tr> </table>			H	T	O				<del>2</del>	<sup>1</sup> 2	7			-	1	3	2				<b>1</b>	<b>9</b>	<b>5</b>				Th	H	T	O				7	<del>5</del>	<sup>1</sup> 7	3			-		2	8	1				<b>7</b>	<b>3</b>	<b>9</b>	<b>2</b>				Th	H	T	O				9	<del>7</del>	<sup>1</sup> 4	5			-	2	3	6	0				<b>7</b>	<b>4</b>	<b>8</b>	<b>5</b>	
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Y4 – Autumn – Block 2 – Subtract two 4-digit numbers – one exchange Answers (continued)

Question	Answer																																																																																																									
5	<p>a)</p> <table border="1"> <tr><td></td><td></td><td>Th</td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td><del>2</del><sup>1</sup></td><td>2</td><td>7</td><td>0</td><td></td></tr> <tr><td></td><td>-</td><td>1</td><td>3</td><td>2</td><td>0</td><td></td></tr> <tr><td></td><td></td><td><b>1</b></td><td><b>9</b></td><td><b>5</b></td><td><b>0</b></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>b)</p> <table border="1"> <tr><td></td><td></td><td>Th</td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td><del>6</del><sup>1</sup></td><td>6</td><td>7</td><td>3</td><td></td></tr> <tr><td></td><td>-</td><td></td><td>7</td><td>2</td><td>1</td><td></td></tr> <tr><td></td><td></td><td><b>6</b></td><td><b>9</b></td><td><b>5</b></td><td><b>2</b></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>c)</p> <table border="1"> <tr><td></td><td></td><td>Th</td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td><del>8</del><sup>1</sup></td><td>8</td><td>4</td><td>5</td><td></td></tr> <tr><td></td><td>-</td><td>1</td><td>9</td><td>2</td><td>1</td><td></td></tr> <tr><td></td><td></td><td><b>7</b></td><td><b>9</b></td><td><b>2</b></td><td><b>4</b></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>			Th	H	T	O				<del>2</del> <sup>1</sup>	2	7	0			-	1	3	2	0				<b>1</b>	<b>9</b>	<b>5</b>	<b>0</b>											Th	H	T	O				<del>6</del> <sup>1</sup>	6	7	3			-		7	2	1				<b>6</b>	<b>9</b>	<b>5</b>	<b>2</b>											Th	H	T	O				<del>8</del> <sup>1</sup>	8	4	5			-	1	9	2	1				<b>7</b>	<b>9</b>	<b>2</b>	<b>4</b>								
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6	No. She has found the difference between the numbers in each column rather than making an exchange.																																																																																																									
7	£6,375																																																																																																									
8	9,713																																																																																																									

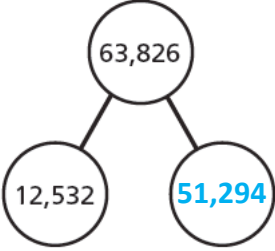
Question	Answer																																																																																
1	a) 1,694 b) 1 hundred was exchanged for 10 tens, and one of the tens was then exchanged for 10 ones. c) 1,682 d) 802 e) $1,702 - 28 = 1,674$ $1,702 - 928 = 774$																																																																																
2	a) 210 b) 209 c) 199 All the numbers are subtracted from 564. In part a) no exchanges were made. In part b) one exchange was made. In part c) two exchanges were made.																																																																																
3	a) 3,399 b) 3,400 c) 3,401 2,036 is subtracted from all the numbers. In part a) 2 exchanges were made. In parts b) and c) no exchanges were made.																																																																																
4	a) <table border="1"> <thead> <tr> <th></th> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td><del>6</del><sup>5</sup>7</td> <td><del>1</del><sup>0</sup>3</td> <td><del>1</del><sup>0</sup>2</td> <td><del>1</del><sup>0</sup>5</td> </tr> <tr> <td>-</td> <td>2</td> <td>4</td> <td>0</td> <td>6</td> </tr> <tr> <td></td> <td><b>4</b></td> <td><b>9</b></td> <td><b>1</b></td> <td><b>9</b></td> </tr> </tbody> </table> b) <table border="1"> <thead> <tr> <th></th> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td><del>4</del><sup>3</sup>5</td> <td><del>15</del><sup>14</sup>6</td> <td><del>12</del><sup>11</sup>3</td> <td><del>1</del><sup>0</sup>4</td> </tr> <tr> <td>-</td> <td>2</td> <td>7</td> <td>4</td> <td>5</td> </tr> <tr> <td></td> <td><b>2</b></td> <td><b>8</b></td> <td><b>8</b></td> <td><b>9</b></td> </tr> </tbody> </table> c) <table border="1"> <thead> <tr> <th></th> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td><del>6</del><sup>5</sup>7</td> <td><del>10</del><sup>9</sup>7</td> <td><del>10</del><sup>9</sup>9</td> <td><del>1</del><sup>0</sup>2</td> </tr> <tr> <td>-</td> <td></td> <td>3</td> <td>9</td> <td>8</td> </tr> <tr> <td></td> <td><b>6</b></td> <td><b>7</b></td> <td><b>0</b></td> <td><b>4</b></td> </tr> </tbody> </table> e) <table border="1"> <thead> <tr> <th></th> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td><del>4</del><sup>3</sup>5</td> <td><del>10</del><sup>9</sup>7</td> <td><del>10</del><sup>9</sup>3</td> <td><del>1</del><sup>0</sup>0</td> </tr> <tr> <td>-</td> <td>1</td> <td>7</td> <td>3</td> <td>3</td> </tr> <tr> <td></td> <td><b>3</b></td> <td><b>2</b></td> <td><b>6</b></td> <td><b>7</b></td> </tr> </tbody> </table>		Th	H	T	O		<del>6</del> <sup>5</sup> 7	<del>1</del> <sup>0</sup> 3	<del>1</del> <sup>0</sup> 2	<del>1</del> <sup>0</sup> 5	-	2	4	0	6		<b>4</b>	<b>9</b>	<b>1</b>	<b>9</b>		Th	H	T	O		<del>4</del> <sup>3</sup> 5	<del>15</del> <sup>14</sup> 6	<del>12</del> <sup>11</sup> 3	<del>1</del> <sup>0</sup> 4	-	2	7	4	5		<b>2</b>	<b>8</b>	<b>8</b>	<b>9</b>		Th	H	T	O		<del>6</del> <sup>5</sup> 7	<del>10</del> <sup>9</sup> 7	<del>10</del> <sup>9</sup> 9	<del>1</del> <sup>0</sup> 2	-		3	9	8		<b>6</b>	<b>7</b>	<b>0</b>	<b>4</b>		Th	H	T	O		<del>4</del> <sup>3</sup> 5	<del>10</del> <sup>9</sup> 7	<del>10</del> <sup>9</sup> 3	<del>1</del> <sup>0</sup> 0	-	1	7	3	3		<b>3</b>	<b>2</b>	<b>6</b>	<b>7</b>
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5	984 ml																																																																																



Question	Answer																																								
6	<p>a)</p> <table border="1"> <thead> <tr> <th></th> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>7</td> <td>1</td> <td>9</td> <td>4</td> </tr> <tr> <td>-</td> <td>1</td> <td>2</td> <td>3</td> <td>6</td> </tr> <tr> <td></td> <td>5</td> <td>9</td> <td>5</td> <td>8</td> </tr> </tbody> </table> <p>b)</p> <table border="1"> <thead> <tr> <th></th> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>4</td> <td>0</td> <td>8</td> <td>3</td> </tr> <tr> <td>-</td> <td></td> <td>2</td> <td>3</td> <td>8</td> </tr> <tr> <td></td> <td>3</td> <td>8</td> <td>4</td> <td>5</td> </tr> </tbody> </table>		Th	H	T	O		7	1	9	4	-	1	2	3	6		5	9	5	8		Th	H	T	O		4	0	8	3	-		2	3	8		3	8	4	5
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	4	0	8	3																																					
-		2	3	8																																					
	3	8	4	5																																					
7	<p>multiple possible answers, e.g.:</p> <p>a) 2,353 - 1,064</p> <p>b) 7,640 - 2,351</p> <p>c) 7,420 - 6,531</p>																																								

Question	Answer																																																																																													
1	<p>a)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td>7</td><td>3</td><td>1</td><td>5</td><td></td></tr> <tr><td></td><td>-</td><td>2</td><td>1</td><td>0</td><td>4</td><td></td></tr> <tr><td></td><td></td><td><u>5</u></td><td><u>2</u></td><td><u>1</u></td><td><u>1</u></td><td></td></tr> </table> <p>b)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td>7</td><td><del>3</del><sup>2</sup></td><td><del>1</del><sup>1</sup></td><td>5</td><td></td></tr> <tr><td></td><td>-</td><td>3</td><td>2</td><td>4</td><td>1</td><td></td></tr> <tr><td></td><td></td><td><u>4</u></td><td><u>0</u></td><td><u>7</u></td><td><u>4</u></td><td></td></tr> </table> <p>c)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td><del>6</del><sup>7</sup></td><td><del>7</del><sup>12</sup></td><td><del>3</del><sup>1</sup></td><td>1</td><td>5</td></tr> <tr><td></td><td>-</td><td>5</td><td>4</td><td>2</td><td>0</td><td></td></tr> <tr><td></td><td></td><td><u>1</u></td><td><u>8</u></td><td><u>9</u></td><td><u>5</u></td><td></td></tr> </table>			7	3	1	5			-	2	1	0	4				<u>5</u>	<u>2</u>	<u>1</u>	<u>1</u>				7	<del>3</del> <sup>2</sup>	<del>1</del> <sup>1</sup>	5			-	3	2	4	1				<u>4</u>	<u>0</u>	<u>7</u>	<u>4</u>				<del>6</del> <sup>7</sup>	<del>7</del> <sup>12</sup>	<del>3</del> <sup>1</sup>	1	5		-	5	4	2	0				<u>1</u>	<u>8</u>	<u>9</u>	<u>5</u>																															
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2	<p>a)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td>8</td><td>4</td><td>3</td><td>4</td><td></td></tr> <tr><td></td><td>-</td><td>2</td><td>1</td><td>0</td><td>4</td><td></td></tr> <tr><td></td><td></td><td><u>6</u></td><td><u>3</u></td><td><u>3</u></td><td><u>0</u></td><td></td></tr> </table> <p>b)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td>£</td><td>8</td><td>8</td><td>2</td><td>0</td><td>0</td></tr> <tr><td></td><td>-</td><td>£</td><td></td><td>6</td><td>1</td><td>0</td><td>0</td></tr> <tr><td></td><td></td><td><u>£</u></td><td><u>8</u></td><td><u>2</u></td><td><u>1</u></td><td><u>0</u></td><td><u>0</u></td></tr> </table> <p>c)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td><del>3</del><sup>4</sup></td><td><del>1</del><sup>6</sup></td><td>6</td><td>8</td><td><del>2</del><sup>3</sup></td><td><del>1</del><sup>2</sup></td></tr> <tr><td></td><td>-</td><td>1</td><td>9</td><td>0</td><td>2</td><td>4</td><td></td></tr> <tr><td></td><td></td><td><u>2</u></td><td><u>7</u></td><td><u>8</u></td><td><u>0</u></td><td><u>8</u></td><td></td></tr> </table> <p>d)</p> <table border="1" style="margin-left: 40px;"> <tr><td></td><td></td><td>3</td><td><del>3</del><sup>4</sup></td><td><del>4</del><sup>5</sup></td><td><del>1</del><sup>2</sup></td><td><del>1</del><sup>1</sup></td><td>0</td></tr> <tr><td></td><td>-</td><td></td><td>6</td><td>7</td><td>9</td><td></td><td></td></tr> <tr><td></td><td></td><td><u>3</u></td><td><u>3</u></td><td><u>8</u></td><td><u>4</u></td><td><u>1</u></td><td></td></tr> </table>			8	4	3	4			-	2	1	0	4				<u>6</u>	<u>3</u>	<u>3</u>	<u>0</u>				£	8	8	2	0	0		-	£		6	1	0	0			<u>£</u>	<u>8</u>	<u>2</u>	<u>1</u>	<u>0</u>	<u>0</u>			<del>3</del> <sup>4</sup>	<del>1</del> <sup>6</sup>	6	8	<del>2</del> <sup>3</sup>	<del>1</del> <sup>2</sup>		-	1	9	0	2	4				<u>2</u>	<u>7</u>	<u>8</u>	<u>0</u>	<u>8</u>				3	<del>3</del> <sup>4</sup>	<del>4</del> <sup>5</sup>	<del>1</del> <sup>2</sup>	<del>1</del> <sup>1</sup>	0		-		6	7	9					<u>3</u>	<u>3</u>	<u>8</u>	<u>4</u>	<u>1</u>	
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3	£19,058																																																																																													
4	624 miles																																																																																													

Y5 – Autumn – Block 2 – Subtract whole numbers with more than 4 digits (column method) Answers  
(continued)

Question	Answer						
5	<p>a)</p>  <p>b)</p> <table border="1"> <tr> <td colspan="3" style="background-color: #ADD8E6;">23,000</td> </tr> <tr> <td style="background-color: #FFC0CB;">12,365</td> <td style="background-color: #FFFF00;">4,017</td> <td style="background-color: #ADD8E6;">6,618</td> </tr> </table>	23,000			12,365	4,017	6,618
23,000							
12,365	4,017	6,618					
6	<p>Rosie has written the numbers the wrong way round and then found the difference between the digits in each column. Whitney has found the difference between the digits in each column, instead of taking the second digit from the first digit, exchanging where necessary.</p>						
7	<p>a) 9 b) 3,273 c) 5,925 Work out <math>15,923 - 10,000</math> and add 2 Work out <math>15,925 - 10,000</math> Count up from 9,998 to 15,923</p>						
8	<p>a) 19,415 b) 75,305</p>						
9	<p>multiple possible answers, e.g.: 5,189 and 8,159 5,198 and 8,195 8,159 and 9,518 8,591 and 9,815</p>						

Y5 – Autumn – Block 2 – Round to estimate and approximate Answers

Question	Answer																														
1	<p>2,937 rounded to the nearest 1,000 is <b>3,000</b>                      1,870 rounded to the nearest 1,000 is <b>2,000</b>                      Rosie's estimate for the answer is  <math>3,000 + 2,000 = 5,000</math></p> <table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>2</td><td>9</td><td>3</td><td>7</td><td></td></tr> <tr><td></td><td>+</td><td>1</td><td>8</td><td>7</td><td>0</td></tr> <tr><td></td><td></td><td><b>4</b></td><td><b>8</b></td><td><b>0</b></td><td><b>7</b></td></tr> <tr><td></td><td></td><td>1</td><td>1</td><td></td><td></td></tr> </table> <p>The actual answer is <b>4,807</b></p>								2	9	3	7			+	1	8	7	0			<b>4</b>	<b>8</b>	<b>0</b>	<b>7</b>			1	1		
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2	<p>a) <math>10,000 + 30,000 = 40,000</math>                      b) <math>50,000 - 10,000 = 40,000</math></p>																														
3	<p><math>7,000 + 1,000 = 8,000</math>                      This is much smaller than Annie's answer.</p>																														
4	<p>a) 10,851 km  <math>4,000 + 7,000 = 11,000</math>                      b) 10,491  <math>1,000 + 10,000 = 11,000</math>                      c) 70,666  <math>80,000 - 10,000 = 70,000</math>                      d) £9,811  <math>12,000 + 4,000 - 6,000 = 10,000</math></p>																														
5	<p>Town <b>A</b> has the greatest population.</p>																														
6	<p>a) Yes, because 1 has been added to each number so the difference is the same.                      b) Yes, because 17,550 is on both sides and <math>10,570 &gt; 9,985</math>                      c) Yes, because on both sides the first and third numbers are the same and one is subtracted from the other, and the second number is the same on both sides.</p>																														
7	<p><math>17,000 - 8,000 = 9,000</math>, which is much less than Mo's answer.</p>																														
8	<p>Both estimates are correct, but they have rounded to different numbers. Dexter has rounded to the nearest 1,000 and Whitney has rounded to the nearest 100.                      6,684                      Whitney                      Rounding to the nearest 1,000 gives an easier calculation for the estimate, but rounding to the nearest 100 gives a more accurate estimate.</p>																														

Y5 – Autumn – Block 2 – Inverse operations (addition and subtraction) Answers

Question	Answer																																																																																																												
1	$1,039 - 719$ $320 - 1,039$ $719 - 320$ $1,039 - 320$																																																																																																												
2	$4,096 + 2,356$ $4,096 + 1,740$ $1,740 + 2,356$ $1,740 + 4,096$																																																																																																												
3	<p>a)</p> <table style="display: inline-table; border-collapse: collapse; margin-right: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>3</td><td>4</td><td>1</td><td>2</td></tr> <tr><td></td><td></td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>-</td><td></td><td>1</td><td>3</td><td>6</td><td>0</td></tr> <tr><td></td><td></td><td>2</td><td>9</td><td>7</td><td>3</td></tr> </table> <p style="margin-left: 100px;">or</p> <table style="display: inline-table; border-collapse: collapse; margin-left: 100px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>3</td><td>4</td><td>1</td><td>2</td></tr> <tr><td></td><td></td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>-</td><td></td><td>2</td><td>9</td><td>7</td><td>3</td></tr> <tr><td></td><td></td><td>1</td><td>3</td><td>6</td><td>0</td></tr> </table> <p>b)</p> <table style="display: inline-table; border-collapse: collapse; margin-right: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>5</td><td>1</td><td>2</td><td>2</td></tr> <tr><td>+</td><td></td><td>3</td><td>1</td><td>4</td><td>2</td></tr> <tr><td></td><td></td><td>8</td><td>2</td><td>6</td><td>4</td></tr> </table> <p style="margin-left: 100px;">or</p> <table style="display: inline-table; border-collapse: collapse; margin-left: 100px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>3</td><td>1</td><td>4</td><td>2</td></tr> <tr><td>+</td><td></td><td>5</td><td>1</td><td>1</td><td>2</td></tr> <tr><td></td><td></td><td>8</td><td>2</td><td>6</td><td>4</td></tr> </table>									3	4	1	2			3	3	3	3	-		1	3	6	0			2	9	7	3									3	4	1	2			3	3	3	3	-		2	9	7	3			1	3	6	0									5	1	2	2	+		3	1	4	2			8	2	6	4									3	1	4	2	+		5	1	1	2			8	2	6	4
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4	<p>Tommy should check his calculation using a subtraction.</p> <p><math>91,380 - 12,350</math> or <math>91,380 - 7,903</math></p> <p>20,253</p>																																																																																																												
5	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; width: 30%;"><math>2,482 + 6,428 = 8,912</math></td> <td style="width: 10%; text-align: center;">or</td> <td style="border: 1px solid black; padding: 5px; width: 30%;"><math>5,271 + 4,212 = 9,483</math></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;"><math>5,984 - 3,172 = 2,812</math></td> <td></td> <td style="border: 1px solid black; padding: 5px;"><math>8,912 - 6,428 = 2,482</math></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;"><math>9,483 - 5,271 = 4,212</math></td> <td></td> <td style="border: 1px solid black; padding: 5px;"><math>8,912 - 5,271 = 3,641</math></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;"><math>8,912 = 3,641 + 5,271</math></td> <td></td> <td style="border: 1px solid black; padding: 5px;"><math>5,984 = 3,172 + 2,812</math></td> </tr> </table>	$2,482 + 6,428 = 8,912$	or	$5,271 + 4,212 = 9,483$	$5,984 - 3,172 = 2,812$		$8,912 - 6,428 = 2,482$	$9,483 - 5,271 = 4,212$		$8,912 - 5,271 = 3,641$	$8,912 = 3,641 + 5,271$		$5,984 = 3,172 + 2,812$																																																																																																
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6	<p>a) 4,835</p> <p>b) 7,658</p> <p>c) 17,057</p>																																																																																																												
7	2,910																																																																																																												
8	<p>possible methods include:</p> <p>Add 3,729 and 8,451, then subtract this total from 20,000</p> <p>Subtract 3,729 from 20,000, then subtract 8,451 from the answer.</p> <p>7,820</p>																																																																																																												

Y5 – Autumn – Block 2 – Multi-step addition and subtraction problems Answers

Question	Answer
1	a) 44 b) 82 c) 41
2	1,300
3	No. $349 + 199 + 479 = 1,027$ and $1,027 < 1,000$
4	the Websters £60
5	2,500
6	Jack has 500 stickers. Amir has 150 stickers. Whitney has 250 stickers.
7	2,642 and 3,842
8	The total of the two numbers must be 7,440 e.g. The two numbers could be 2,000 and 5,440 One of the numbers cannot be greater than 6,440