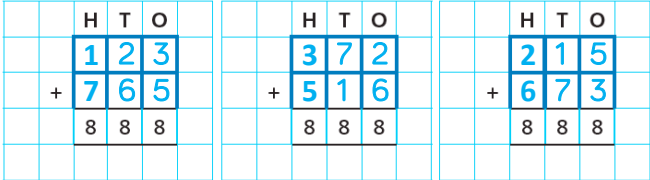
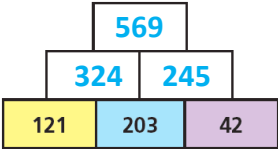
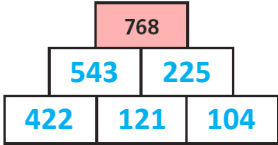


Y4 – Autumn – Block 2 – 1s, 10s, 100s, 1,000s Answers

Question	Answer	
1	a) 3,425 b) 3,428 c) 3,445 d) 3,225 e) 8,425	
2	a) 5,578 b) 5,398 c) 7,378 d) 5,372 e) 5,318 f) 2,378 g) 5,678 h) 5,078	
3	a) $6,058 + 1 = 6,059$ $6,058 + 2 = 6,060$ $6,058 + 3 = 6,061$ $6,058 + 4 = 6,062$ $5 + 6,058 = 6,063$	b) $6,058 + 20 = 6,078$ $6,058 + 30 = 6,088$ $6,058 + 40 = 6,098$ $6,058 + 50 = 6,108$ $60 + 6,058 = 6,118$
4	2,450 3,928 4,180 5,905 972 The 1,000s change when there is a 9 in the hundreds column.	
5	a) £1,842 b) £2,442 c) £2,382	
6	No, Eva is incorrect. When she has taken 10 away five times, her number will be 2,062. The next time that she takes 10 away, her number will be 1,962, so the thousands will also change.	
7	a) $6,951 - 30 = 6,921$ $6,951 - 70 = 6,881$ b) $6,421 - 700 = 5,721$ $6,421 + 700 = 7,121$ c) $1,706 + 60 = 1,766$ $1,706 - 800 = 906$ d) $3,500 - 800 = 2,700$ $3,500 - 70 = 3,430$	
8	a) 5,212 Children need to develop the ability to do this type of calculation mentally. b) $1,780 + 2,200 = 3,980$ $3,084 + 720 = 3,804$ $591 + 2,820 = 3,411$	

Question	Answer																															
1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>4</td><td>5</td><td>3</td></tr> <tr><td></td><td></td><td>+</td><td>1</td><td>2</td><td>5</td></tr> <tr><td></td><td></td><td></td><td><u>5</u></td><td><u>7</u></td><td><u>8</u></td></tr> </table>			H	T	O			4	5	3			+	1	2	5				<u>5</u>	<u>7</u>	<u>8</u>									
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2	<p>a)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="background-color: #d9ead3;">Hundreds</td> <td style="background-color: #d9ead3;">Tens</td> <td style="background-color: #d9ead3;">Ones</td> </tr> <tr> <td>●●●</td> <td>●●●●</td> <td>●●</td> </tr> <tr> <td>●●</td> <td></td> <td>●●●●●</td> </tr> </table> <p>b)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>3</td><td>6</td><td>2</td></tr> <tr><td></td><td></td><td>+</td><td>2</td><td>0</td><td>5</td></tr> <tr><td></td><td></td><td></td><td><u>5</u></td><td><u>6</u></td><td><u>7</u></td></tr> </table> <p>c) It is best to add the ones column first.</p>	Hundreds	Tens	Ones	●●●	●●●●	●●	●●		●●●●●			H	T	O			3	6	2			+	2	0	5				<u>5</u>	<u>6</u>	<u>7</u>
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			<u>5</u>	<u>6</u>	<u>7</u>																											
3	399 km																															
4	<p>a) $711 + 140 = 851$</p> <p>b) $414 + 203 = 617$</p> <p>c) $502 + 384 = 886$</p>																															
5	<p>a) 939</p> <p>b) 289</p> <p>c) £896</p>																															

Question	Answer
6	a) school A School A has fewer boys than school A, so must have more girls. b) 129
7	multiple possible answers, e.g.: 
8	a)  b) multiple possible answers. e.g.:  Children can check each other's pyramids.

Y4 – Autumn – Block 2 – Add two 4-digit numbers - no exchange Answers

Question	Answer																				
1	836																				
2	a) 8,336 b) 3,336 c) The hundreds, tens and ones digits are the same. Only the thousands digit is different.																				
3	a) 6,727 b) 7,869 c) 1,279 d) 3,567																				
4	No. Alex has not lined up the digits correctly. 5,827																				
5	2,552 km																				
6	2,876																				
7	<table border="1" style="margin-left: auto; margin-right: auto;"> <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>3</td> <td>2</td> <td>0</td> </tr> <tr> <td>+</td> <td>5</td> <td>4</td> <td>7</td> <td>6</td> </tr> <tr> <td></td> <td>8</td> <td>7</td> <td>9</td> <td>6</td> </tr> </tbody> </table>		Th	H	T	O		3	3	2	0	+	5	4	7	6		8	7	9	6
	Th	H	T	O																	
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+	5	4	7	6																	
	8	7	9	6																	
8	7,557 One number is the reverse of the other, so the answer is the same forwards and backwards.																				

Question	Answer																																																																															
1	<p>a)</p> <table border="1"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>2</td><td>3</td><td>5</td></tr> <tr><td></td><td>+</td><td>1</td><td>5</td><td>7</td></tr> <tr><td></td><td></td><td>3</td><td>9</td><td>2</td></tr> <tr><td></td><td></td><td></td><td>1</td><td></td></tr> </table> <p>b)</p> <table border="1"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>3</td><td>7</td><td>2</td></tr> <tr><td></td><td>+</td><td>1</td><td>4</td><td>4</td></tr> <tr><td></td><td></td><td>5</td><td>1</td><td>6</td></tr> <tr><td></td><td></td><td></td><td>1</td><td></td></tr> </table>			H	T	O			2	3	5		+	1	5	7			3	9	2				1				H	T	O			3	7	2		+	1	4	4			5	1	6				1																														
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2	<table border="1"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>2</td><td>3</td><td>8</td><td></td><td></td><td>4</td><td>2</td><td>7</td><td>✓</td><td></td><td></td><td>3</td><td>0</td><td>8</td></tr> <tr><td></td><td>+</td><td>1</td><td>4</td><td>1</td><td></td><td>+</td><td>2</td><td>6</td><td>8</td><td></td><td>+</td><td>1</td><td>5</td><td>1</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>The ones column adds up to more than 9</p>			H	T	O			H	T	O				H	T	O			2	3	8			4	2	7	✓			3	0	8		+	1	4	1		+	2	6	8		+	1	5	1																																
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	+	1	4	1		+	2	6	8		+	1	5	1																																																																		
3	<p>a) $336 + 276$ b) 612 c) 2</p>																																																																															
4	<p>a) 658 b) 751 m c) 826 d) 820</p>																																																																															
5	<p>a)</p> <table border="1"> <tr> <td>$317 + 203$ <input checked="" type="checkbox"/></td> <td>$192 + 784$ <input type="checkbox"/></td> <td>$390 + 177$ <input type="checkbox"/></td> </tr> <tr> <td>$455 + 165$ <input checked="" type="checkbox"/></td> <td>$386 + 184$ <input checked="" type="checkbox"/></td> <td>$319 + 501$ <input checked="" type="checkbox"/></td> </tr> </table> <p>b) No, we only need to look at the ones column. c) The answer to $175 + 212$ ends with a 7 The answer to $609 + 175$ ends with a 4 The answer to $334 + 178$ ends with a 2 e.g. The answer to $716 + 127$ ends with a 3</p>	$317 + 203$ <input checked="" type="checkbox"/>	$192 + 784$ <input type="checkbox"/>	$390 + 177$ <input type="checkbox"/>	$455 + 165$ <input checked="" type="checkbox"/>	$386 + 184$ <input checked="" type="checkbox"/>	$319 + 501$ <input checked="" type="checkbox"/>																																																																									
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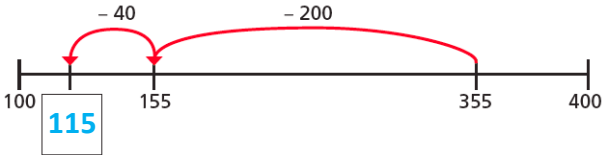
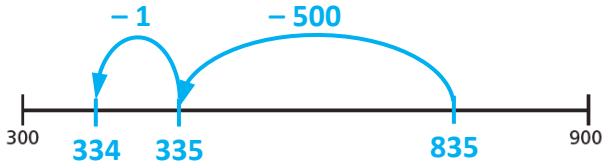
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7	<p>a) 421 b) 569</p>																																																																				
8	<p>multiple possible answers, e.g.: 1 exchange: 123 + 119, 357 + 261 2 exchanges: 444 + 278, 576 + 176 Children can check each other's additions.</p>																																																																				

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

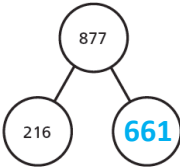
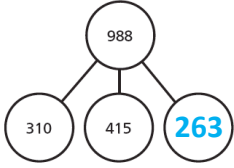
Question	Answer																																																																																																																								
1	<p>a) 5,659</p> <p>b) 5,661</p> <p>c) In part b), 10 ones needed to be exchanged for 1 ten. Part a) was easier because there were no exchanges.</p> <p>d) 10 counters in one column need to be exchanged for 1 counter in the next column to the left.</p>																																																																																																																								
2	<p>a) 6,982</p> <p>b) 6,975</p> <p>c) 6,955</p> <p>d) 5,177</p>																																																																																																																								
3	<p>a)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th><th></th></tr> </thead> <tbody> <tr><td></td><td>5</td><td>1</td><td>6</td><td>3</td><td></td></tr> <tr><td>+</td><td>2</td><td>4</td><td>5</td><td>1</td><td></td></tr> <tr><td></td><td>7</td><td>6</td><td>1</td><td>4</td><td></td></tr> <tr><td></td><td></td><td>1</td><td></td><td></td><td></td></tr> </tbody> </table> <p>b)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th><th></th></tr> </thead> <tbody> <tr><td></td><td>7</td><td>2</td><td>6</td><td>1</td><td></td></tr> <tr><td>+</td><td>1</td><td>0</td><td>2</td><td>9</td><td></td></tr> <tr><td></td><td>8</td><td>2</td><td>9</td><td>0</td><td></td></tr> <tr><td></td><td></td><td></td><td>1</td><td></td><td></td></tr> </tbody> </table> <p>c)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th><th></th></tr> </thead> <tbody> <tr><td></td><td></td><td>7</td><td>0</td><td>3</td><td></td></tr> <tr><td>+</td><td>2</td><td>5</td><td>8</td><td>0</td><td></td></tr> <tr><td></td><td>3</td><td>2</td><td>8</td><td>3</td><td></td></tr> <tr><td></td><td></td><td>1</td><td></td><td></td><td></td></tr> </tbody> </table> <p>d)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr><th></th><th>Th</th><th>H</th><th>T</th><th>O</th><th></th></tr> </thead> <tbody> <tr><td></td><td>3</td><td>5</td><td>0</td><td>8</td><td></td></tr> <tr><td>+</td><td>2</td><td>7</td><td>3</td><td>1</td><td></td></tr> <tr><td></td><td>6</td><td>2</td><td>3</td><td>9</td><td></td></tr> <tr><td></td><td></td><td>1</td><td></td><td></td><td></td></tr> </tbody> </table>		Th	H	T	O			5	1	6	3		+	2	4	5	1			7	6	1	4				1					Th	H	T	O			7	2	6	1		+	1	0	2	9			8	2	9	0					1				Th	H	T	O				7	0	3		+	2	5	8	0			3	2	8	3				1					Th	H	T	O			3	5	0	8		+	2	7	3	1			6	2	3	9				1			
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4	<p>Alex</p> <p>Rosie has written the total of 3 + 8 in the tens column, instead of carrying 1 hundred to the hundreds column.</p> <p>Jack has not written down the '1' under the hundreds column.</p> <p>Teddy has not lined the digits up correctly.</p>																																																																																																																								
5	A and C, A and D, B and D																																																																																																																								
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3	No, the greater number should be on top.																																												
4	<p>a) $355 - 240 = 115$</p>  <p>b) $835 - 501 = 334$</p> 																																												
5	£379																																												
6	<p>a) 224</p> <p>b) 401</p>																																												
7	<p>★ = <table border="1" style="display: inline-table; vertical-align: middle;">4</table> ▲ = <table border="1" style="display: inline-table; vertical-align: middle;">3</table> + = <table border="1" style="display: inline-table; vertical-align: middle;">4</table> ◐ = <table border="1" style="display: inline-table; vertical-align: middle;">0</table></p> <p>● = <table border="1" style="display: inline-table; vertical-align: middle;">2</table> ◆ = <table border="1" style="display: inline-table; vertical-align: middle;">5</table></p>																																												

Y3 – Autumn – Block 2 – Subtract 3-digit numbers from 3-digit numbers – no exchange Answers
(continued)

Question	Answer
8	<p>a)</p>  <p>b)</p> 
9	<p>The difference between the two numbers is the same if 1 is subtracted from both.</p> $1,000 - 285 = 715$ $800 - 636 = 164$

Y4 - Autumn - Block 2 - Subtract two 4-digit numbers - no exchange Answers

Question	Answer																																																												
1	<p>$5,624 - 2,301 = 3,323$</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>5</td> <td>6</td> <td>2</td> <td>4</td> </tr> <tr> <td>-</td> <td>2</td> <td>3</td> <td>0</td> <td>1</td> </tr> <tr> <td></td> <td>3</td> <td>3</td> <td>2</td> <td>3</td> </tr> </tbody> </table> <p>Both representations show the same subtraction. The place value chart uses counters to show the number, but the grid calculation just uses numbers.</p>		Th	H	T	O		5	6	2	4	-	2	3	0	1		3	3	2	3																																								
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2	<p>a) 2,211 b) 2,120 c) 7,001</p>																																																												
3	<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>9</td> <td>3</td> <td>1</td> <td>6</td> </tr> <tr> <td>-</td> <td>7</td> <td>2</td> <td>0</td> <td>5</td> </tr> <tr> <td></td> <td>2</td> <td>1</td> <td>1</td> <td>1</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>8</td> <td>0</td> <td>6</td> <td>1</td> </tr> <tr> <td>-</td> <td>3</td> <td>0</td> <td>6</td> <td>0</td> </tr> <tr> <td></td> <td>5</td> <td>0</td> <td>0</td> <td>1</td> </tr> </tbody> </table> <p>c)</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>9</td> <td>2</td> <td>7</td> </tr> <tr> <td>-</td> <td></td> <td>3</td> <td>1</td> <td>5</td> </tr> <tr> <td></td> <td>4</td> <td>6</td> <td>1</td> <td>2</td> </tr> </tbody> </table>		Th	H	T	O		9	3	1	6	-	7	2	0	5		2	1	1	1		Th	H	T	O		8	0	6	1	-	3	0	6	0		5	0	0	1		Th	H	T	O		4	9	2	7	-		3	1	5		4	6	1	2
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4	<p>No. Aisha has not lined up the digits correctly.</p>																																																												

Y4 - Autumn - Block 2 - Subtract two 4-digit numbers - no exchange Answers (continued)

Question	Answer																																																																																																																																																																								
5	<p>a) $6,205 - 104 = 6,101$</p> <table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>6</td><td>2</td><td>0</td><td>5</td></tr> <tr><td></td><td>-</td><td></td><td>1</td><td>0</td><td>4</td></tr> <tr><td></td><td></td><td colspan="4"><hr/></td></tr> <tr><td></td><td></td><td>6</td><td>1</td><td>0</td><td>1</td></tr> <tr><td></td><td></td><td colspan="4"><hr/></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>b) $3,749 - 1,642 = 2,107$</p> <table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>3</td><td>7</td><td>4</td><td>9</td></tr> <tr><td></td><td>-</td><td>1</td><td>6</td><td>4</td><td>2</td></tr> <tr><td></td><td></td><td colspan="4"><hr/></td></tr> <tr><td></td><td></td><td>2</td><td>1</td><td>0</td><td>7</td></tr> <tr><td></td><td></td><td colspan="4"><hr/></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>c) $2,111 = 5,371 - 3,260$</p> <table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>5</td><td>3</td><td>7</td><td>1</td></tr> <tr><td></td><td>-</td><td>3</td><td>2</td><td>6</td><td>0</td></tr> <tr><td></td><td></td><td colspan="4"><hr/></td></tr> <tr><td></td><td></td><td>2</td><td>1</td><td>1</td><td>1</td></tr> <tr><td></td><td></td><td colspan="4"><hr/></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>d) $9,000 = 9,853 - 853$</p> <table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>9</td><td>8</td><td>5</td><td>3</td></tr> <tr><td></td><td>-</td><td></td><td>8</td><td>5</td><td>3</td></tr> <tr><td></td><td></td><td colspan="4"><hr/></td></tr> <tr><td></td><td></td><td>9</td><td>0</td><td>0</td><td>0</td></tr> <tr><td></td><td></td><td colspan="4"><hr/></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>									6	2	0	5		-		1	0	4			<hr/>						6	1	0	1			<hr/>																		3	7	4	9		-	1	6	4	2			<hr/>						2	1	0	7			<hr/>																		5	3	7	1		-	3	2	6	0			<hr/>						2	1	1	1			<hr/>																		9	8	5	3		-		8	5	3			<hr/>						9	0	0	0			<hr/>									
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4	<p>In the tens column, the top number has been subtracted from the bottom number.</p>																																																																																

Y3 – Autumn – Block 2 – Subtract a 3-digit number from a 3-digit number – exchange Answers
(continued)

Question	Answer																																																		
5	<p>a) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>6</td><td>7</td><td>0</td></tr> <tr><td></td><td></td><td>↓</td><td>↑</td><td>0</td></tr> <tr><td></td><td></td><td>5</td><td>4</td><td>6</td></tr> <tr><td></td><td></td><td>1</td><td>5</td><td>4</td></tr> </table></p> <p>b) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>7</td><td>8</td><td>5</td></tr> <tr><td></td><td></td><td>↓</td><td>↑</td><td>5</td></tr> <tr><td></td><td></td><td>1</td><td>7</td><td>9</td></tr> <tr><td></td><td></td><td>6</td><td>2</td><td>6</td></tr> </table></p>			H	T	O			6	7	0			↓	↑	0			5	4	6			1	5	4			H	T	O			7	8	5			↓	↑	5			1	7	9			6	2	6
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		2	9	2																																															
7	677																																																		
8	<p>a) $179 + 416 = 595$ b) $718 - 370 = 348$ c) $95 + 637 + 138 = 870$ d) $949 - 446 = 503$</p>																																																		
9	94 m																																																		
10	£188																																																		

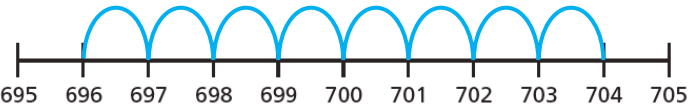
Y4 – Autumn – Block 2 – Subtract two 4-digit numbers – one exchange Answers (continued)

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>2¹</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>1</td><td>9</td><td>5</td><td>0</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>6¹</td><td>6</td><td>7</td><td>3</td><td></td></tr> <tr><td>-</td><td></td><td>7</td><td>2</td><td>1</td><td></td><td></td></tr> <tr><td></td><td></td><td>6</td><td>9</td><td>5</td><td>2</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>8¹</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>7</td><td>9</td><td>2</td><td>4</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				2 ¹	2	7	0		-		1	3	2	0				1	9	5	0											Th	H	T	O				6 ¹	6	7	3		-		7	2	1					6	9	5	2											Th	H	T	O				8 ¹	8	4	5		-		1	9	2	1				7	9	2	4								
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6	<p>No. She has found the difference between the numbers in each column rather than making an exchange.</p>																																																																																																									
7	£6,375																																																																																																									
8	9,713																																																																																																									

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

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>6⁵</td> <td>1⁰3</td> <td>1⁰2</td> <td>1⁰5</td> </tr> <tr> <td>-</td> <td>2</td> <td>4</td> <td>0</td> <td>6</td> </tr> <tr> <td></td> <td>4</td> <td>9</td> <td>1</td> <td>9</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>4³5</td> <td>1⁰5</td> <td>1⁰2</td> <td>1⁰4</td> </tr> <tr> <td>-</td> <td>2</td> <td>7</td> <td>4</td> <td>5</td> </tr> <tr> <td></td> <td>2</td> <td>8</td> <td>8</td> <td>9</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>6⁵</td> <td>1⁰0</td> <td>1⁰0</td> <td>1⁰2</td> </tr> <tr> <td>-</td> <td></td> <td>3</td> <td>9</td> <td>8</td> </tr> <tr> <td></td> <td>6</td> <td>7</td> <td>0</td> <td>4</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>4³5</td> <td>1⁰0</td> <td>1⁰0</td> <td>1⁰0</td> </tr> <tr> <td>-</td> <td>1</td> <td>7</td> <td>3</td> <td>3</td> </tr> <tr> <td></td> <td>3</td> <td>2</td> <td>6</td> <td>7</td> </tr> </tbody> </table>		Th	H	T	O		6 ⁵	1 ⁰ 3	1 ⁰ 2	1 ⁰ 5	-	2	4	0	6		4	9	1	9		Th	H	T	O		4 ³ 5	1 ⁰ 5	1 ⁰ 2	1 ⁰ 4	-	2	7	4	5		2	8	8	9		Th	H	T	O		6 ⁵	1 ⁰ 0	1 ⁰ 0	1 ⁰ 2	-		3	9	8		6	7	0	4		Th	H	T	O		4 ³ 5	1 ⁰ 0	1 ⁰ 0	1 ⁰ 0	-	1	7	3	3		3	2	6	7
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Question	Answer																																																													
1	<p>a) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>6</td><td>7</td><td>10</td><td>9</td><td>1</td><td>4</td></tr> <tr><td></td><td></td><td>-</td><td>6</td><td>9</td><td>6</td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>0</td><td>0</td><td>8</td><td></td><td></td></tr> </table></p> <p>b) </p> <p>c) The method in part b) is easier because the column subtraction involves lots of exchanges.</p>			H	T	O				6	7	10	9	1	4			-	6	9	6						0	0	8																																	
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2	<p>a) 5 b) 8 c) 28</p>																																																													
3	<p>a) <table border="1" style="display: inline-table; vertical-align: middle; margin-right: 20px;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>6</td><td>7</td><td>10</td><td>9</td><td>1</td><td>0</td></tr> <tr><td></td><td></td><td>-</td><td>3</td><td>4</td><td>8</td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>3</td><td>5</td><td>2</td><td></td><td></td></tr> </table> <table border="1" style="display: inline-table; vertical-align: middle;"> <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>5</td><td>6</td><td>10</td><td>9</td><td>1</td><td>0</td></tr> <tr><td></td><td></td><td>-</td><td>2</td><td>1</td><td>4</td><td>5</td><td></td></tr> <tr><td></td><td></td><td></td><td>3</td><td>8</td><td>5</td><td>5</td><td></td></tr> </table> <p>We have to make lots of exchanges in both calculations.</p> <p>b) $5,999 - 2,145 = 3,854$ $3,854 + 1 = 3,855$ so $6,000 - 2,145 = 3,855$</p> <p>c) $5,999 - 2,144 = 3,855$ so $6,000 - 2,145 = 3,855$</p> <p>d) Children need to explain why they prefer one particular method.</p> </p>			H	T	O				6	7	10	9	1	0			-	3	4	8						3	5	2					Th	H	T	O				5	6	10	9	1	0			-	2	1	4	5					3	8	5	5	
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4	<p>Children can choose the method they prefer.</p> <p>a) 159 b) 271 c) £218 d) 2,698 mm</p>																																																													
5	<p>1,217</p>																																																													
6	<p>a) Eva is subtracting 1 less than 2,000 so she subtracts 2,000 then adds 1 back on. b) She could add 1 to each number, so the difference does not change, and calculate $7,386 - 2,000$ c) $4,512 - 2,999 = 1,513$ $3,704 - 2,998 = 706$ $5,147 - 997 = 4,150$</p>																																																													

Y4 – Autumn – Block 2 – Efficient subtraction Answers (continued)

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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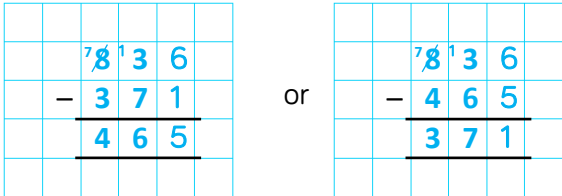
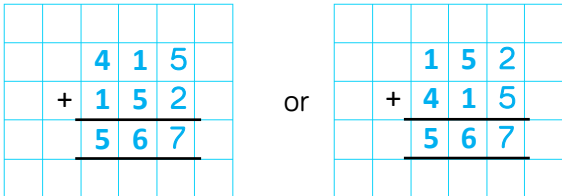
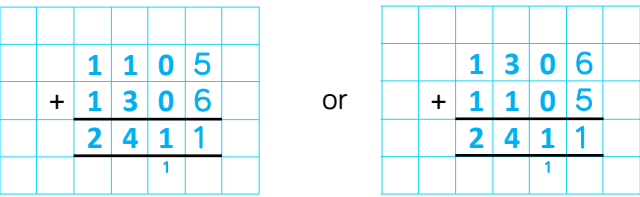
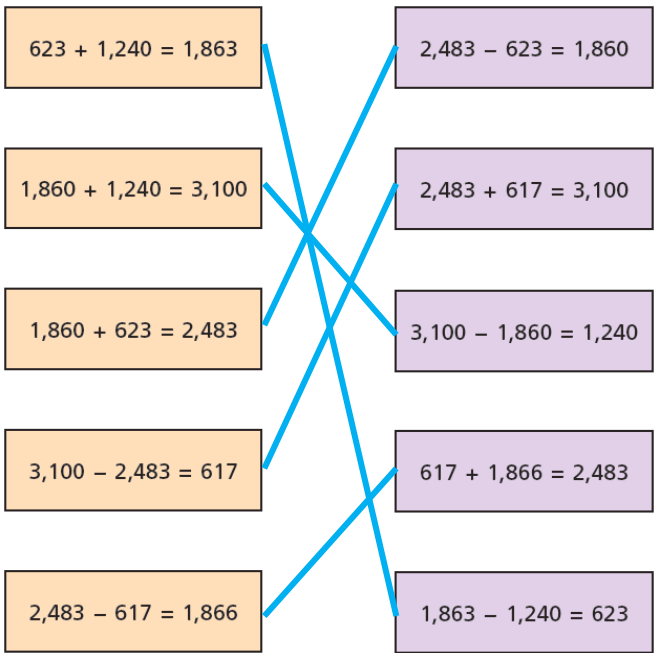
Y4 – Autumn – Block 2 – Estimate answers Answers

Question	Answer																									
1	<p>a) 607 rounded to the nearest hundred is 600 395 rounded to the nearest hundred is 400 Filip's estimate for the answer is $600 + 400 = 1,000$</p> <p>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></td> <td>6</td> <td>0</td> <td>7</td> </tr> <tr> <td>+</td> <td></td> <td>3</td> <td>9</td> <td>5</td> </tr> <tr> <td></td> <td>1</td> <td>0</td> <td>0</td> <td>2</td> </tr> <tr> <td></td> <td>1</td> <td>1</td> <td>1</td> <td></td> </tr> </tbody> </table> The actual answer is 1,002</p>		Th	H	T	O			6	0	7	+		3	9	5		1	0	0	2		1	1	1	
	Th	H	T	O																						
		6	0	7																						
+		3	9	5																						
	1	0	0	2																						
	1	1	1																							
2	<p>a) 7,958 rounded to the nearest thousand is 8,000 6,103 rounded to the nearest thousand is 6,000 Alex's estimate is $8,000 - 6,000 = 2,000$</p> <p>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>7</td> <td>9</td> <td>5</td> <td>8</td> </tr> <tr> <td>-</td> <td>6</td> <td>1</td> <td>0</td> <td>3</td> </tr> <tr> <td></td> <td>1</td> <td>8</td> <td>5</td> <td>5</td> </tr> </tbody> </table> The actual answer is 1,855</p>		Th	H	T	O		7	9	5	8	-	6	1	0	3		1	8	5	5					
	Th	H	T	O																						
	7	9	5	8																						
-	6	1	0	3																						
	1	8	5	5																						
3	<p>Dora has rounded 795 to 700 instead of 800 $800 - 500 = 300$</p>																									
4	<p>a) multiple possible answers, e.g.: $2,999 + 999 = 3,998$ $3,076 + 1,200 = 4,276$ $2,621 + 1,334 = 3,955$</p> <p>b) multiple possible answers, e.g.: $£601 - £107 = £494$ $£649 - £130 = £519$ $£550 - £72 = £478$</p>																									

Y4 – Autumn – Block 2 – Estimate answers Answers (continued)

Question	Answer		
5	Question	Estimated answer	Accurate answer
	3,970 km – 1,850 km	4,000 – 2,000 = 2,000 km	2,120 km
	7,076 – 852	7,000 – 1,000 = 6,000	6,224
	7,076 – 652	7,000 – 1,000 = 6,000	6,424
1,994 ml + 1,994 ml	2,000 + 2,000 = 4,000 ml	3,988 ml	
6	Dexter He has rounded to the nearest hundred, which is more accurate than rounding to the nearest thousand.		
7	a) Answers will vary depending on whether rounding to nearest thousand or nearest hundred. 3,000 + 1,000 = 4,000 or 2,600 + 1,200 = 3,800 b) 3,810 c) Comments will vary depending on whether children rounded to the nearest thousand or the nearest hundred.		

Y4 – Autumn – Block 2 – Checking strategies Answers

Question	Answer
1	$787 - 271$ $516 - 271$ $271 - 787$ $787 - 516$
2	$2,364 + 1,202$ $1,162 + 1,202$ $2,364 + 1,162$ $1,202 + 1,162$
3	<p>a) </p> <p>b) </p> <p>c) </p>
4	$2,160 + 2,403 = 4,563$ $2,403 + 2,160 = 4,563$ $4,563 - 2,160 = 2,403$ $4,563 - 2,403 = 2,160$
5	<p>No, he should check his calculation with a subtraction. He has not lined up the digits correctly.</p>
6	

Y4 - Autumn - Block 2 - Checking strategies Answers (continued)

Question	Answer
7	a) 777 b) 1,822 c) 4,252 d) 5,275