

Question	Answer																																																																																
1	a) <table><tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td></td><td>2</td><td>4¹</td><td>4</td></tr><tr><td></td><td>-</td><td>1</td><td>2</td><td>6</td></tr><tr><td></td><td></td><td>1</td><td>2</td><td>8</td></tr></table> 10 ones for 1 ten b) <table><tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td></td><td>4¹</td><td>3</td><td>2</td></tr><tr><td></td><td>-</td><td>2</td><td>8</td><td>1</td></tr><tr><td></td><td></td><td>2</td><td>5</td><td>1</td></tr></table> 10 tens for 1 hundred			H	T	O			2	4 ¹	4		-	1	2	6			1	2	8			H	T	O			4 ¹	3	2		-	2	8	1			2	5	1																																								
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3	a) <table><tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td></td><td>7</td><td>2¹</td><td>5</td></tr><tr><td></td><td>-</td><td>2</td><td>1</td><td>8</td></tr><tr><td></td><td></td><td>5</td><td>1</td><td>7</td></tr></table> b) <table><tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td></td><td>3¹</td><td>2</td><td>8</td></tr><tr><td></td><td>-</td><td>1</td><td>6</td><td>3</td></tr><tr><td></td><td></td><td>2</td><td>6</td><td>5</td></tr></table> c) <table><tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td></td><td>3¹⁰</td><td>4¹</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>2</td><td>3</td><td>6</td></tr></table> d) <table><tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td></td><td>2¹⁷</td><td>8¹</td><td>2</td></tr><tr><td></td><td>-</td><td>1</td><td>9</td><td>4</td></tr><tr><td></td><td></td><td>1</td><td>8</td><td>8</td></tr></table>			H	T	O			7	2 ¹	5		-	2	1	8			5	1	7			H	T	O			3 ¹	2	8		-	1	6	3			2	6	5			H	T	O			3 ¹⁰	4 ¹	5		-	1	7	9			2	3	6			H	T	O			2 ¹⁷	8 ¹	2		-	1	9	4			1	8	8
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4	In the tens column, the top number has been subtracted from the bottom number.																																																																																

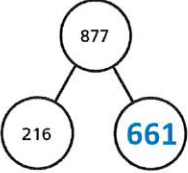
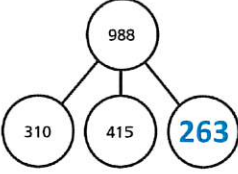
Y3 – Autumn – Block 2 – Step 16 – Subtract a 3-digit number from a 3-digit number – exchange Answers
(continued)

Question	Answer																																																																																																
5	a) <table><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></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>-</td><td>5</td><td>4</td><td>6</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>1</td><td>5</td><td>4</td></tr><tr><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></tr></table> b) <table><tr><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td></tr><tr><td></td><td></td><td>7</td><td>8</td><td>10</td><td>9</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>-</td><td>1</td><td>7</td><td>9</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>6</td><td>2</td><td>6</td></tr><tr><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></tr></table>			H	T	O				6	7	10	9									-	5	4	6										1	5	4															H	T	O				7	8	10	9									-	1	7	9										6	2	6												
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			2	9	2																																																																																												
7	677																																																																																																
8	a) $179 + 416 = 595$ b) $718 - 370 = 348$ c) $95 + 637 + 138 = 870$ d) $949 - 446 = 503$																																																																																																
9	94 m																																																																																																
10	£188																																																																																																

Answers

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2	a) <table><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>2</td><td></td></tr><tr><td></td><td>-</td><td>4</td><td>7</td><td>1</td><td></td></tr><tr><td></td><td></td><td>2</td><td>0</td><td>1</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> b) <table><tr><td></td><td></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>3</td><td></td></tr><tr><td></td><td>-</td><td>1</td><td>5</td><td>1</td><td></td></tr><tr><td></td><td></td><td>4</td><td>1</td><td>2</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>			H	T	O				6	7	2			-	4	7	1				2	0	1										H	T	O				5	6	3			-	1	5	1				4	1	2							
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		4	1	2																																																									
3	No, the greater number should be on top.																																																												
4	a) $355 - 240 = 115$ b) $835 - 501 = 334$																																																												
5	£379																																																												
6	a) 224 b) 401																																																												
7	★ = 4 ▲ = 3 + = 4 ◐ = 0 ● = 2 ◆ = 5																																																												

Y3 – Autumn – Block 2 – Step 15 – Subtract 3-digit numbers from 3-digit numbers – no exchange
Answers (continued)

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

Y4 – Autumn – Block 2 – Step 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><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>3</td><td>3</td><td>2</td><td>0</td><td></td></tr><tr><td></td><td>+</td><td>5</td><td>4</td><td>7</td><td>6</td><td></td></tr><tr><td></td><td></td><td>8</td><td>7</td><td>9</td><td>6</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				3	3	2	0			+	5	4	7	6				8	7	9	6								
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		3	3	2	0																															
	+	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	<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>4</td><td>5</td><td>3</td><td></td></tr><tr><td></td><td>+</td><td>1</td><td>2</td><td>5</td><td></td></tr><tr><td></td><td></td><td>5</td><td>7</td><td>8</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>			H	T	O				4	5	3			+	1	2	5				5	7	8																												
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2	a) <table border="1"><thead><tr><th>Hundreds</th><th>Tens</th><th>Ones</th></tr></thead><tbody><tr><td>●●●</td><td>●●●●</td><td>●●</td></tr><tr><td>●</td><td>●●●●</td><td></td></tr><tr><td>●●</td><td></td><td>●●●●</td></tr></tbody></table> + <table border="1"><tbody><tr><td>●●</td><td></td><td>●●●●</td></tr><tr><td></td><td></td><td>●●●●</td></tr><tr><td></td><td></td><td>●</td></tr></tbody></table> b) <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>6</td><td>2</td><td></td></tr><tr><td></td><td>+</td><td>2</td><td>0</td><td>5</td><td></td></tr><tr><td></td><td></td><td>5</td><td>6</td><td>7</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> c) It is best to add the ones column first.	Hundreds	Tens	Ones	●●●	●●●●	●●	●	●●●●		●●		●●●●	●●		●●●●			●●●●			●			H	T	O				3	6	2			+	2	0	5				5	6	7							
Hundreds	Tens	Ones																																																		
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		3	6	2																																																
	+	2	0	5																																																
		5	6	7																																																
3	399 km																																																			
4	a) $711 + 140 = 851$ b) $414 + 203 = 617$ c) $502 + 384 = 886$																																																			
5	a) 939 b) 289 c) £896																																																			

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.: <table><tr><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><td></td><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td></tr><tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td><td>3</td><td>7</td><td>2</td><td></td><td></td><td></td><td>2</td><td>1</td><td>5</td><td></td></tr><tr><td></td><td>+</td><td>7</td><td>6</td><td>5</td><td></td><td></td><td></td><td>+</td><td>5</td><td>1</td><td>6</td><td></td><td></td><td>+</td><td>6</td><td>7</td><td>3</td></tr><tr><td></td><td></td><td>8</td><td>8</td><td>8</td><td></td><td></td><td></td><td></td><td>8</td><td>8</td><td>8</td><td></td><td></td><td></td><td>8</td><td>8</td><td>8</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><td></td><td></td></tr></table>			H	T	O				H	T	O				H	T	O				1	2	3				3	7	2				2	1	5			+	7	6	5				+	5	1	6			+	6	7	3			8	8	8					8	8	8				8	8	8																		
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8	a) <table><tr><td></td><td></td><td>569</td><td></td></tr><tr><td></td><td>324</td><td></td><td>245</td></tr><tr><td>121</td><td>203</td><td></td><td>42</td></tr></table> b) multiple possible answers. e.g.: <table><tr><td></td><td></td><td>768</td><td></td></tr><tr><td></td><td>543</td><td></td><td>225</td></tr><tr><td>422</td><td>121</td><td></td><td>104</td></tr></table> Children can check each other's pyramids.			569			324		245	121	203		42			768			543		225	422	121		104																																																																		
		569																																																																																									
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		768																																																																																									
	543		225																																																																																								
422	121		104																																																																																								

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) $1,780 + 2,200 = 3,980$ $3,084 + 720 = 3,804$ $591 + 2,820 = 3,411$