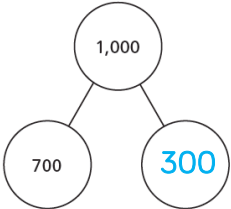
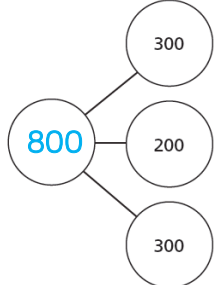
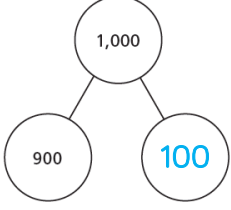


Y3 – Autumn – Block 2 – Add and subtract multiples of 100 Answers

Question	Answer
1	a) 5 ones + 2 ones = 7 ones b) 5 tens + 2 tens = 7 tens c) 5 hundreds + 2 hundreds = 7 hundreds
2	200
3	a) $3 + 1 = 4$ $30 + 10 = 40$ $300 + 100 = 400$ b) $400 + 200 = 600$ $400 + 300 = 700$ $400 + 400 = 800$ $400 + 500 = 900$ $400 + 600 = 1,000$
4	a) $9 - 2 = 7$ $90 - 20 = 70$ $900 - 200 = 700$ b) $600 - 400 = 200$ $600 - 300 = 300$ $600 - 200 = 400$ $600 - 100 = 500$ $600 - 0 = 600$
5	900
6	$100 + 700 = 800$ $700 + 100 = 800$ $800 - 100 = 700$ $800 - 700 = 100$
7	a)  c)  c) 

Y3 – Autumn – Block 2 – Add and subtract multiples of 100 Answers (continued)

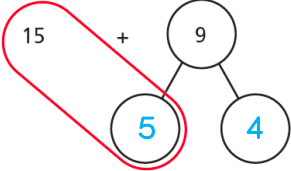
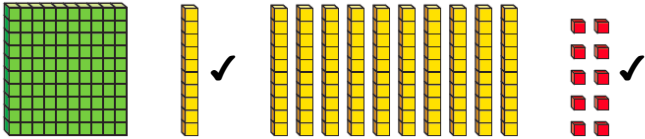
Question	Answer
8	a) $200 + 300 = 500$ b) $800 - 100 = 700$ c) $300 + 400 = 700$ d) $500 + 200 = 700$ e) $500 - 200 = 300$ f) $900 = 600 + 300$ g) $200 + 200 + 300 = 700$ h) $600 = 100 + 200 + 300$ i) $700 - 200 + 300 = 800$ j) $500 - 500 = 0$
9	900
10	<p>There are multiple possible answers.                      possible answers adding two numbers:  <math>100 + 600 = 700</math>  <math>200 + 500 = 700</math>  <math>300 + 400 = 700</math>  <math>400 + 300 = 700</math>  <math>500 + 200 = 700</math>  <math>600 + 100 = 700</math></p> <p>possible answers subtracting two numbers:  <math>1,000 - 300 = 700</math>  <math>900 - 200 = 700</math>  <math>800 - 100 = 700</math></p> <p>There are many more possibilities when adding or subtracting more than two numbers.                      Working systematically will help find all the possible questions.</p>

Y2 – Autumn – Block 2 – Add and subtract 1s Answers

Question	Answer																										
1	a) Jack has 7 cookies now. b) Amir has 3 cookies now.																										
2	a) <table border="1" data-bbox="262 306 719 360"> <tr> <td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td> </tr> </table> b) <table border="1" data-bbox="262 375 719 428"> <tr> <td>47</td><td>46</td><td>45</td><td>44</td><td>43</td><td>42</td><td>41</td><td>40</td> </tr> </table> c) <table border="1" data-bbox="262 443 719 497"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td> </tr> </table>	21	22	23	24	25	26	27	28	47	46	45	44	43	42	41	40	1	2	3	4	5	6	7	8	9	10
21	22	23	24	25	26	27	28																				
47	46	45	44	43	42	41	40																				
1	2	3	4	5	6	7	8	9	10																		
3	a) 43 b) 44 c) 45 d) 42																										
4	a) 15 b) 23 c) 55 d) 62 e) 18 f) 1 g) 1 h) 88																										
5	a) 16 b) 25 c) 58 d) 66 e) 17 f) 2 g) 7 h) 86																										
6	a) true b) false When two numbers are added together, the order of the numbers does not matter. When one number is subtracted from another number, the order of the numbers does matter.																										

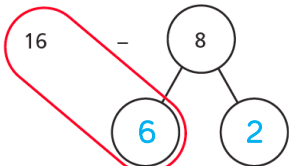
Y3 – Autumn – Block 2 – Add and subtract 3-digit and 1-digit numbers – not crossing 10 Answers

Question	Answer
1	237
2	a) $325 - 3$ b) 322
3	a) $475 + 1 = 476$ $475 + 2 = 477$ $475 + 3 = 478$ $475 + 4 = 479$ b) $475 - 1 = 474$ $475 - 2 = 473$ $475 - 3 = 472$ $475 - 4 = 471$ $475 - 5 = 470$
4	a) 657 b) Tom has subtracted 2 tens instead of 2 ones.
5	a) 279 b) 272 c) 310 d) 316 e) 408 f) 274 g) 628 h) 481 i) 4 j) 1 k) 5 l) 2
6	529
7	$396 + 1$ or $391 + 6$ $139 - 6$ $391 + 6$ or $396 + 1$ $169 - 3$
8	a) $784 + 4 = 788$ b) $970 + 3 = 973$ c) $178 - 5 = 173$
9	$764 + 3 = 767$ , $767 + 2 = 769$ $3 + 2 = 5$ , $764 + 5 = 769$
10	even Scott's number must have ended with a zero and all numbers ending in zero are even.

Question	Answer
1	a) $16 + 1 = 17$ $16 + 2 = 18$ $16 + 3 = 19$ $16 + 4 = 20$ $16 + 5 = 21$ $16 + 6 = 22$ b) $16 + 7 = 23$ We can work out $16 + 7$ by adding 1 to $16 + 6$
2	b) $10 + 3 = 13$ c)  $20 + 4 = 24$
3	a) 23 b) 22 c) 25 d) 22 e) 23 f) 21
4	 Both representations show 10, but one is 1 ten while the other is 10 ones.
5	a) 31 b) 42 c) 61 d) 30
6	a) 31 b) 42 c) 61 d) 30 e) 83 f) 73 g) 62 h) 62

Question	Answer										
1	a) 192 Add the ones to get 12 ones. Put 12 ones = 1 ten + 2 ones Add 1 ten and 2 ones to 180 b) 354										
2	a) 643 b) 251 c) 351										
3	a) 301 b) 670 c) 432 d) 834										
4	a) <table style="display: inline-table; vertical-align: middle; margin-right: 20px;"> <tr> <td><math>426 + 6</math></td> <td><math>422 + 5</math></td> <td><math>427 + 3</math></td> </tr> <tr> <td><math>429 + 1</math></td> <td><math>420 + 8</math></td> <td><math>423 + 7</math></td> </tr> </table> b) <table style="display: inline-table; vertical-align: middle; margin-right: 20px;"> <tr> <td><math>376 + 4 = 380</math></td> <td><math>535 + 5 = 540</math></td> </tr> <tr> <td><math>219 + 1 = 220</math></td> <td><math>2 + 658 = 660</math></td> </tr> </table>	$426 + 6$	$422 + 5$	$427 + 3$	$429 + 1$	$420 + 8$	$423 + 7$	$376 + 4 = 380$	$535 + 5 = 540$	$219 + 1 = 220$	$2 + 658 = 660$
$426 + 6$	$422 + 5$	$427 + 3$									
$429 + 1$	$420 + 8$	$423 + 7$									
$376 + 4 = 380$	$535 + 5 = 540$										
$219 + 1 = 220$	$2 + 658 = 660$										
5	No. When the ones digit of the 3-digit number and the 1-digit number add up to more than 10, then the tens digit in the 3-digit number will change, e.g. $456 + 7 = 463$										
6	a) $345 + 7 = 352$ b) $725 + 6 = 731$ c) $459 + 3 = 462$ d) $9 + 179 = 188$ e) $348 + 7 = 355$ f) $315 + 8 = 323$										
7	possible answers: $917 + 8 = 925$ $918 + 7 = 925$ $197 + 8 = 205$ $198 + 7 = 205$ $781 + 9 = 790$ $789 + 1 = 790$ $871 + 9 = 880$ $879 + 1 = 880$										
8	£4										

Y2 – Autumn – Block 2 – Subtraction – crossing 10 Answers

Question	Answer
1	a) $22 - 1 = 21$ $22 - 2 = 20$ $22 - 3 = 19$ $22 - 4 = 18$ $22 - 5 = 17$ $22 - 6 = 16$ b) $22 - 7 = 15$ We can work out $22 - 7$ by subtracting 1 from $22 - 6$
2	b) $10 - 7 = 3$ c)  $10 - 2 = 8$
3	a) 5 b) 6 c) 9 d) 8 e) 6 f) 9
4	a) 17 b) 28 c) 16 We can find the difference by subtracting the number of units in the first number and then subtracting the number of units that are left over.
5	a) 24 b) 37 c) 24 d) 29 e) 65 f) 55 g) 46 h) 38
6	subtraction using the three cards, e.g. $67 - 2$ There are six different possible subtractions: $67 - 2$ , $62 - 7$ , $76 - 2$ , $72 - 6$ , $26 - 7$ , $27 - 6$ greatest difference: 74 smallest difference: 19

Question	Answer
1	a) 242 Take 3 ones away from the 5 ones of 245 b) 237 Change 1 ten of 245 to 10 ones to make 15 ones, then take 8 ones away.
2	304
3	a) $273 - 2$ <input type="checkbox"/> $273 - 5$ <input checked="" type="checkbox"/> $273 - 8$ <input checked="" type="checkbox"/> b) $395 - 8$ <input checked="" type="checkbox"/> $395 - 1$ <input type="checkbox"/> $395 - 5$ <input type="checkbox"/> c) $412 - 7$ <input checked="" type="checkbox"/> $412 - 6$ <input checked="" type="checkbox"/> $412 - 3$ <input checked="" type="checkbox"/>
4	a) 127 b) 415 c) 243
5	217
6	a) 308 b) 653 c) 468 d) 668 e) 822 f) 818
7	a) $524 - 3 = 521$ $524 - 5 = 519$ $524 - 7 = 517$ b) $188 - 5 = 183$ $183 - 5 = 178$ $180 - 5 = 175$
8	a) Dexter b) Mo has subtracted 2 from 9
9	multiple possible solutions: $360 - 3 = 357$ $364 - 7 = 357$ $361 - 4 = 357$ $365 - 8 = 357$ $362 - 5 = 357$ $366 - 9 = 357$ $363 - 6 = 357$
10	a) 3 b) 3 c) 7 d) 290



Y3 – Autumn – Block 2 – Add and subtract 3-digit and 2-digit numbers Answers

Question	Answer
1	164
2	a) 463 b) $463 - 40$ c) 423
3	a) 285 b) 463 c) 180
4	a) 176 b) 116 c) 146
5	a) 772 b) 712 c) 792 d) 722 e) 762 f) 702
6	a) $717 + 30 = 747$ $717 + 60 = 777$ $717 + 40 = 757$ $80 + 717 = 797$ The ones digit is always 7 b) $182 - 30 = 152$ $282 - 30 = 252$ $587 - 30 = 557$ $380 - 30 = 350$ The ones digit stays the same as in the 3-digit number.
7	5 has been subtracted from the ones digit instead of the tens digit.
8	a) 166 b) 281 c) 501 d) 775 e) 987 f) 295 g) 847 h) 70 i) 90 j) 227 k) 40 l) 0
9	multiple possible answers, e.g.: $726 + 10 - 10 = 726$ $726 + 20 - 10 = 736$ $716 + 40 - 30 = 726$ $726 + 90 - 20 = 796$ $756 + 40 - 70 = 726$ $726 + 70 - 90 = 706$

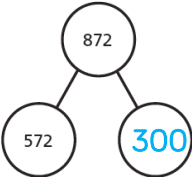
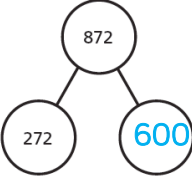
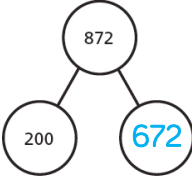
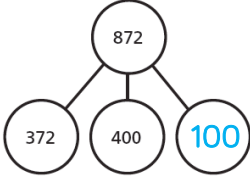
Y3 – Autumn – Block 2 – Add 3-digit and 2-digit numbers – crossing 100 Answers

Question	Answer
1	a) 271 b) 281 c) 291 d) 301 When the two tens digits sum to less than 10 the hundreds digit stays the same. Then they sum to 10 or more the hundreds digit increases by 1
2	a) 412 b) 642
3	439
4	multiple possible answers, e.g.: $262 + 50 = 312$ $887 + 50 = 927$ $450 + 50 = 500$
5	a) 522 b) 752 c) 427 d) 154 e) 814 f) 802 g) 241 h) 336
6	$349 + 80 = 429$ $359 + 70 = 429$ $339 + 90 = 429$ $30 + 399 = 429$
7	a) $772 + 40 = 812$ $772 + 50 = 822$ $772 + 80 = 852$ b) $394 + 60 = 454$ $384 + 60 = 444$ $354 + 60 = 414$
8	a) 5 b) 6 c) 5
9	multiple possible answers, e.g.: 80 litres and 10 litres 70 litres and 20 litres 60 litres and 30 litres 50 litres and 40 litres (assuming that red bucket is larger than blue bucket)

Y3 – Autumn – Block 2 – Subtract 2 digits from 3 digits – crossing 100 Answers

Question	Answer
1	a) 215 b) 205 c) Create 235 with 2 hundreds, 3 tens and 5 ones. Change one of the hundreds into 10 tens. Take 5 tens away from the 13 tens. d) $235 - 50 = 185$ $235 - 70 = 165$ $235 - 90 = 145$
2	a) 263 b) 672
3	Rosie can exchange 1 hundred for 10 tens and then subtract 70
4	a) 660 b) 298 c) 188 d) 887 e) 666 f) 438 g) 299 h) 623
5	$408 - 50 = 358$ $418 - 60 = 358$ $428 - 70 = 358$ $438 - 80 = 358$ $448 - 90 = 358$
6	Nijah might have subtracted 2 tens from 8 tens instead of 8 tens from 2 tens.
7	a) 50 b) 80 c) 60 d) 30 e) 90 f) 421 g) 673 h) 518
8	Amir's number must have between 2 and 6 tens. It must have 2 or more tens for no exchange when subtracting 20 It must have 6 or fewer tens for an exchange when subtracting 70

Y3 – Autumn – Block 2 – Add and subtract 100s Answers

Question	Answer
1	$351 + 300 = 651$
2	a) 626 b) 526 c) 326 d) 26
3	a) $400 + 300 = 700$ $430 + 300 = 730$ $439 + 300 = 739$ $300 + 477 = 777$ b) $700 - 200 = 500$ $780 - 200 = 580$ $783 - 200 = 583$ $701 - 200 = 501$ Only the hundreds digit changes.
4	a)  b)  c)  d)  The last two digits of one of the numbers are the same as the last two digits of the total. The hundreds digits add up to the number of hundreds in the total.

Y3 – Autumn – Block 2 – Add and subtract 100s Answers (continued)

Question	Answer
5	a) 500 b) 200 c) 200 d) 400 e) 608 f) 924 g) 449 h) 400 i) 100 j) 99
6	2 hundreds
7	a) 595 b) 700
8	6

Y3 – Autumn – Block 2 – Spot the pattern – making it explicit Answers

Question	Answer
1	a) 228 b) 282 c) 822 One digit changes to 8 and the other two digits stay at 2
2	a) 377 b) 737 c) 773 One digit changes to 3 and the other two digits stay at 7
3	a) $315 + 200 = 515$ $315 + 20 = 335$ $315 + 2 = 317$ b) $748 - 200 = 548$ $748 - 20 = 728$ $748 - 2 = 746$ c) $405 + 30 = 435$ $405 + 50 = 455$ $405 + 90 = 495$ d) $635 - 300 = 335$ $635 - 500 = 135$ $635 - 600 = 35$
4	a) 5 ones b) 436,706 or 733
5	634
6	a) 500 more than 238 is equal to <b>738</b> b) 528 is <b>300</b> more than 228 c) 727 is <b>2</b> less than 729 d) 64 is <b>300</b> less than 364 e) 429 is 20 more than <b>409</b> f) 429 is 20 less than <b>449</b>
7	a) 698 b) 254 Work backwards through the function machine.
8	No. If the tens digit in the number is 6 or less, then the tens column is the only column that changes, e.g. $612 + 30 = 642$ . If the tens digit in the number is 7 or more, then the tens column and the hundreds column change, e.g. $589 + 30 = 619$

Y2 – Autumn – Block 2 – Add 2-digit numbers (2) Answers

Question	Answer
1	a) 10 ones = 1 ten b) 14 ones = 1 ten and 4 ones c) 17 ones = 1 ten and 7 ones
2	7 ones + 5 ones = 12 ones 12 ones = 1 ten and 2 ones 4 tens + 1 ten = 5 tens 47 + 15 = 62
3	a) 11 b) 40 c) 51 d) 40 e) 82 f) 51 g) 41 h) 67 i) 62 j) 86
4	46 + 15 = 61 The little 1 represents the 10 ones that are carried into the tens column as 1 ten.
5	a) 72 b) 37 c) 90 d) 82
6	two digits that sum to 5, e.g. 49 + 13 = 62 Children may have different answers. Possible answers: 19 + 43, 29 + 33, 39 + 23, 49 + 13

Y2 – Autumn – Block 2 – Subtract with 2-digit numbers (2) Answers

Question	Answer
1	<p>a) 39 27 <math>39 - 12 = 27</math></p> <p>b) 31 19 <math>31 - 12 = 19</math></p> <p>Both calculations have subtracted 12. In part a) subtracting the ones digits did not go across a tens boundary, but in part b) it did.</p>
2	<p>a) 17 b) 26 c) 16 d) 19 e) 28 f) 58</p>
3	<p>Tommy 'borrows' one of the tens from the tens digit to make a number greater than 10 in the ones column, so that he can subtract 5</p>
4	<p>a) 17 b) 26 c) 16 d) 19 e) 28 f) 58</p>
5	<p>a) 52 b) 14</p>



### Y3 – Autumn – Block 2 – Mixed addition and subtraction problems Answers

Question	Answer
1	a) $125 + 300 = 425$ b) $425 + 50 = 475$ c) $475 + 7 = 482$
2	36
3	a) 328 cm b) 50 cm
4	£118
5	525 ml
6	27
7	13 or 153
8	369

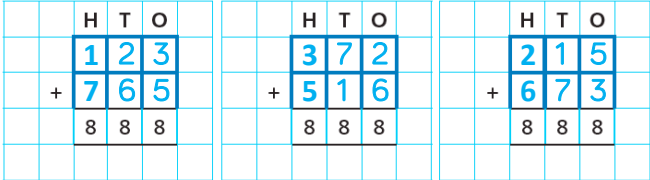
Question	Answer																																																																																																
1	a) 283 b) 349 c) 288 d) 789																																																																																																
2	a) 412 b) 501 c) 733 d) 913																																																																																																
3	a) £289 b) 379																																																																																																
4	a) Eva partitioned 37 into 30 and 7. Then she added 30 and then 7 b) 488 c) 712																																																																																																
5	221 cm																																																																																																
6	Yes. $£125 + £72 = £197$ , which is less than £200, so Filip has enough money.																																																																																																
7	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>9</td><td>6</td><td>7</td><td></td></tr> <tr><td></td><td>+</td><td></td><td>3</td><td>1</td><td></td></tr> <tr><td></td><td></td><td>9</td><td>9</td><td>8</td><td></td></tr> </table> </div> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>9</td><td>1</td><td>3</td><td></td></tr> <tr><td></td><td>+</td><td></td><td>7</td><td>6</td><td></td></tr> <tr><td></td><td></td><td>9</td><td>8</td><td>9</td><td></td></tr> </table> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <tr><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>9</td><td>7</td><td></td></tr> <tr><td></td><td>-</td><td></td><td>3</td><td>6</td><td></td></tr> <tr><td></td><td></td><td>1</td><td>6</td><td>1</td><td></td></tr> </table> </div> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <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>9</td><td>3</td><td></td></tr> <tr><td></td><td>-</td><td></td><td>7</td><td>1</td><td></td></tr> <tr><td></td><td></td><td>6</td><td>2</td><td>2</td><td></td></tr> </table> </div> </div> <p style="margin-top: 20px;">                     In the additions, the numbers in each column can be either way round.                      The lefthand subtraction is the only possible answer.                      An alternative answer for the righthand subtraction is <math>631 - 17</math> </p>			H	T	O				9	6	7			+		3	1				9	9	8				H	T	O				9	1	3			+		7	6				9	8	9				H	T	O				1	9	7			-		3	6				1	6	1				H	T	O				6	9	3			-		7	1				6	2	2	
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Y3 – Autumn – Block 2 – Add 2-digit and 3-digit numbers – crossing 10 or 100 Answers

Question	Answer																																																												
1	364																																																												
2	a) 617 b) 820																																																												
3	a) 247 b) 391 c) 274 kg d) 917 e) 521 f) £807																																																												
4	Ron has not lined up the columns correctly. 511																																																												
5	355																																																												
6	multiple possible answers, e.g.: <table border="1" style="display: inline-table; 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>8</td><td>3</td><td>7</td><td></td></tr> <tr><td></td><td>+</td><td></td><td>2</td><td>5</td><td></td></tr> <tr><td></td><td></td><td>8</td><td>6</td><td>2</td><td></td></tr> <tr><td></td><td></td><td></td><td>1</td><td></td><td></td></tr> </table> <table border="1" style="display: inline-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>3</td><td>5</td><td></td></tr> <tr><td></td><td>+</td><td></td><td>8</td><td>2</td><td></td></tr> <tr><td></td><td></td><td>8</td><td>1</td><td>7</td><td></td></tr> <tr><td></td><td></td><td>1</td><td></td><td></td><td></td></tr> </table>			H	T	O				8	3	7			+		2	5				8	6	2					1					H	T	O				7	3	5			+		8	2				8	1	7				1			
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7	$418 + 67 = 485$																																																												
8	a) 282 b) 322																																																												

Question	Answer																																
1	a) subtraction created using base 10 b) <table border="1" data-bbox="254 254 468 441"> <thead> <tr> <th></th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>2</td> <td><del>4</del><sup>13</sup></td> <td>3</td> </tr> <tr> <td>-</td> <td></td> <td>2</td> <td>7</td> </tr> <tr> <td></td> <td>2</td> <td>2</td> <td>6</td> </tr> </tbody> </table>		H	T	O		2	<del>4</del> <sup>13</sup>	3	-		2	7		2	2	6																
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2	344																																
3	a) 227 b) 133 c) 463 d) 170 cm e) 348 f) 768																																
4	384																																
5	a) 683 b) 559																																
6	a) The person has found the difference between the numbers in each column. b) The person has exchanged 1 hundred for 10 ones.																																
7	Whitney has counted on 357 from 78. First she counted on 22 to 100 and then worked out the difference between 357 and 22																																
8	a) <table border="1" data-bbox="254 1259 468 1446"> <thead> <tr> <th></th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>7</td> <td>4</td> <td>5</td> </tr> <tr> <td>-</td> <td></td> <td>2</td> <td>9</td> </tr> <tr> <td></td> <td>7</td> <td>1</td> <td>6</td> </tr> </tbody> </table> b) <table border="1" data-bbox="254 1477 468 1663"> <thead> <tr> <th></th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>3</td> <td>0</td> <td>6</td> </tr> <tr> <td>-</td> <td></td> <td>7</td> <td>8</td> </tr> <tr> <td></td> <td>2</td> <td>2</td> <td>8</td> </tr> </tbody> </table>		H	T	O		7	4	5	-		2	9		7	1	6		H	T	O		3	0	6	-		7	8		2	2	8
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9	a) three different methods showing $470 - 79 = 392$ , e.g. using base 10, column subtraction, counting on from 79 b) multiple possible answers, e.g. $500 - 60 - 8$ $500 - 70 + 2$																																

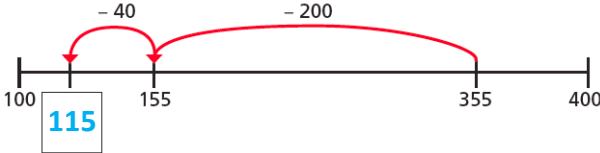
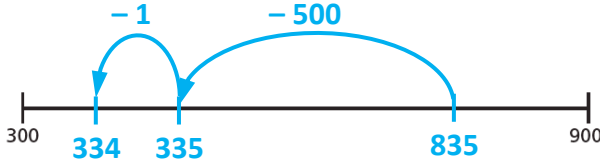
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3	399 km																																		
4	<p>a) <math>711 + 140 = 851</math></p> <p>b) <math>414 + 203 = 617</math></p> <p>c) <math>502 + 384 = 886</math></p>																																		
5	<p>a) 939</p> <p>b) 289</p> <p>c) £896</p>																																		

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) <table border="1" data-bbox="254 638 525 783" style="margin-left: 40px;"> <tr><td></td><td colspan="2" style="text-align: center;">569</td><td></td></tr> <tr><td></td><td style="text-align: center;">324</td><td style="text-align: center;">245</td><td></td></tr> <tr><td style="text-align: center;">121</td><td style="text-align: center;">203</td><td style="text-align: center;">42</td><td></td></tr> </table> b) multiple possible answers. e.g.: <table border="1" data-bbox="254 830 525 975" style="margin-left: 40px;"> <tr><td></td><td colspan="2" style="text-align: center;">768</td><td></td></tr> <tr><td></td><td style="text-align: center;">543</td><td style="text-align: center;">225</td><td></td></tr> <tr><td style="text-align: center;">422</td><td style="text-align: center;">121</td><td style="text-align: center;">104</td><td></td></tr> </table> Children can check each other's pyramids.		569				324	245		121	203	42			768				543	225		422	121	104	
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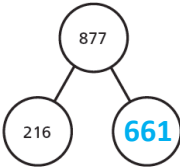
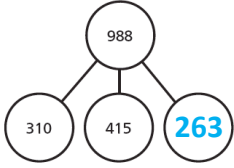
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3	<p>a) <math>336 + 276</math>          b) 612          c) 2</p>																																																																	
4	<p>a) 658          b) 751 m          c) 826          d) 820</p>																																																																	
5	<p>a)</p> <table style="margin-left: 20px;"> <tr> <td><math>317 + 203</math> <input checked="" type="checkbox"/></td> <td><math>192 + 784</math> <input type="checkbox"/></td> <td><math>390 + 177</math> <input type="checkbox"/></td> </tr> <tr> <td><math>455 + 165</math> <input checked="" type="checkbox"/></td> <td><math>386 + 184</math> <input checked="" type="checkbox"/></td> <td><math>319 + 501</math> <input checked="" type="checkbox"/></td> </tr> </table> <p>b) No, we only need to look at the ones column.          c) The answer to <math>175 + 212</math> ends with a 7          The answer to <math>609 + 175</math> ends with a 4          The answer to <math>334 + 178</math> ends with a 2          e.g. The answer to <math>716 + 127</math> 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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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>																																																																				



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3	No, the greater number should be on top.																																												
4	<p>a) <math>355 - 240 = 115</math></p>  <p>b) <math>835 - 501 = 334</math></p> 																																												
5	£379																																												
6	<p>a) 224</p> <p>b) 401</p>																																												
7	<p>★ = <span style="border: 1px solid black; padding: 2px;">4</span>    ▲ = <span style="border: 1px solid black; padding: 2px;">3</span>    + = <span style="border: 1px solid black; padding: 2px;">4</span>    ◐ = <span style="border: 1px solid black; padding: 2px;">0</span></p> <p>● = <span style="border: 1px solid black; padding: 2px;">2</span>    ◆ = <span style="border: 1px solid black; padding: 2px;">5</span></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> $1,000 - 285 = 715$ $800 - 636 = 164$

Question	Answer																																																																																
1	<p>a) <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>2</td><td><del>4</del><sup>1</sup></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><u>1</u></td><td><u>2</u></td><td><u>8</u></td></tr> </table></p> <p>10 ones for 1 ten</p> <p>b) <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td><del>4</del><sup>1</sup></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><u>2</u></td><td><u>5</u></td><td><u>1</u></td></tr> </table></p> <p>10 tens for 1 hundred</p>			H	T	O			2	<del>4</del> <sup>1</sup>	4		-	1	2	6			<u>1</u>	<u>2</u>	<u>8</u>			H	T	O			<del>4</del> <sup>1</sup>	3	2		-	2	8	1			<u>2</u>	<u>5</u>	<u>1</u>																																								
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4	<p>In the tens column, the top number has been subtracted from the bottom number.</p>																																																																																

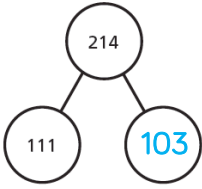
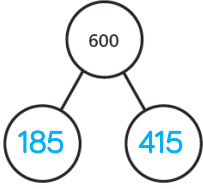
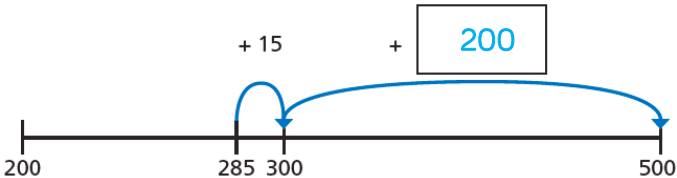
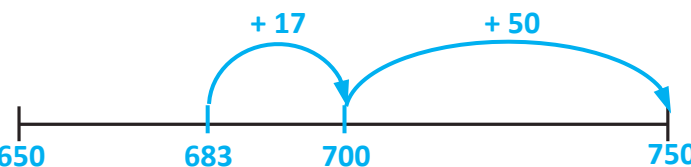
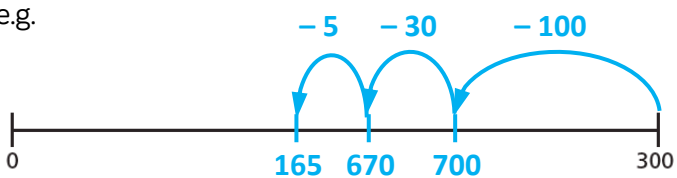
Y3 – Autumn – Block 2 – Subtract a 3-digit number from a 3-digit number – exchange Answers  
(continued)

Question	Answer																																																												
5	<p>a)</p> <table border="1" data-bbox="261 223 472 401"> <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>↓</td></tr> <tr><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></tr> <tr><td></td><td></td><td>1</td><td>5</td><td>4</td></tr> </table> <p>b)</p> <table border="1" data-bbox="261 414 472 592"> <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>↓</td></tr> <tr><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></tr> <tr><td></td><td></td><td>6</td><td>2</td><td>6</td></tr> </table>			H	T	O			6	7	0			↓	↑	↓			5	4	6			-					1	5	4			H	T	O			7	8	5			↓	↑	↓			1	7	9			-					6	2	6
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7	677																																																												
8	<p>a) <math>179 + 416 = 595</math>          b) <math>718 - 370 = 348</math>          c) <math>95 + 637 + 138 = 870</math>          d) <math>949 - 446 = 503</math></p>																																																												
9	94 m																																																												
10	£188																																																												

Y3 – Autumn – Block 2 – Estimate answers to calculations Answers

Question	Answer												
1	<p>a) 195 is close to <b>200</b>                      308 is close to <b>300</b>                      My estimate for the number people in total is  <math>200 + 300 = 500</math></p> <p>b) 503                      It was a good estimate because the answer is close to the estimate.</p>												
2	<p>395 is close to <b>400</b>                      49 is close to <b>50</b>                      My estimate is <b>450</b>                      444                      The estimate is close to the answer.                      If children rounded 49 to the nearest 100 to be 0, then the estimate will be 400, which is not such a good estimate.</p>												
3	<table border="1"> <thead> <tr> <th>Question</th> <th>Estimate</th> <th>Exact answer</th> </tr> </thead> <tbody> <tr> <td>705 – 194</td> <td><math>700 - 200 = 500</math></td> <td>511</td> </tr> <tr> <td>511 – 97</td> <td><math>500 - 100 = 400</math></td> <td>414</td> </tr> <tr> <td>187 + 203 + 19</td> <td><math>200 + 200 + 20 = 420</math></td> <td>409</td> </tr> </tbody> </table>	Question	Estimate	Exact answer	705 – 194	$700 - 200 = 500$	511	511 – 97	$500 - 100 = 400$	414	187 + 203 + 19	$200 + 200 + 20 = 420$	409
Question	Estimate	Exact answer											
705 – 194	$700 - 200 = 500$	511											
511 – 97	$500 - 100 = 400$	414											
187 + 203 + 19	$200 + 200 + 20 = 420$	409											
4	If we estimate the answer first, we can check that our answer makes sense.												
5	$200 + 400 = 600$ , which is much smaller than 5,107												
6	<p>a) Yes, <math>200 + 100 + 200 + 50 = 550</math> km                      b) 545 km</p>												
7	<p>No.  <math>500 \text{ ml} + 500 \text{ ml} = 1,000 \text{ ml}</math>                      <math>813 \text{ ml} &lt; 1,000 \text{ ml}</math></p>												
8	<p>No.  <math>\pounds 153</math> is closer to <math>\pounds 150</math> and <math>\pounds 65</math> is closer to <math>\pounds 70</math>  <math>\pounds 150 + \pounds 70 = \pounds 220</math> so she has saved enough.</p>												

Y3 – Autumn – Block 2 – Check answers Answers

Question	Answer
1	<p>a) <math>32 + 13 = 45</math>  <math>13 + 32 = 45</math>  <math>45 - 32 = 13</math>  <math>45 - 13 = 32</math></p> <p>b) <math>129 + 108 = 237</math>  <math>108 + 129 = 237</math>  <math>237 - 129 = 108</math>  <math>237 - 108 = 129</math></p> <p>c) <math>700 + 300 = 1,000</math>  <math>300 + 700 = 1,000</math>  <math>1,000 - 700 = 300</math>  <math>1,000 - 300 = 700</math></p>
2	<p>a) </p> <p>b) </p>
3	<p>a) <math>500 - 285 = 215</math></p>  <p>b) <math>750 - 683 = 67</math></p> 
4	<p>a) <math>300 - 175</math> or <math>300 - 135</math></p> <p>b) e.g.</p>  <p>c) 310</p>
5	275
6	86
7	<p>multiple possible answers, e.g.: <math>367 + 485 = 852</math>          Checking methods could include reverse calculations and using number lines.</p>