

	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Place Value	<p>Find 1000 more or less than a given number.</p>	<ul style="list-style-type: none"> What is 1000 more than 3452? What is 1000 less than 2671? Find the value of ● $3891 + \bullet = 4891$ 	<ul style="list-style-type: none"> Henry says 'When I add 1000 to 4325 I only have to change 1 digit.' Is he correct? Which digit does he need to change? Phil says that he can make the number that is 1000 less than 3512 using the number cards 1, 2, 3 and 4. Do you agree? Explain your answer. Lucy thinks of a number. She says 'The number 1000 more than my number has the digits 1,2,3 and 4.The number 1000 less uses the digits 1, 3 and 4' What number is Lucy thinking of? 	<ul style="list-style-type: none"> Fill in the boxes by finding the patterns.

	National Curriculum Statement	All students												
		Fluency	Reasoning	Problem Solving										
Addition and Subtraction	<p>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</p>	<ul style="list-style-type: none"> Complete the calculations below using the column method. $354 \quad 276 = \quad 1425 + 2031 =$ $3864 - 2153 =$ $2416 - 1732 =$ Fill in the missing numbers: $432 + \square = 770$ $50 + 199 + \square = 450$ $\square - 75 = 94$ $\square - 5000 = 5700$ Choose whether to solve these questions mentally or using written methods. $54 + 46$ $540 + 460$ $34 + 69 + 26$ $298 + 342$ $566 + 931$ $999 + 999$ $1547 + 2742$ $1999 + 364$ 	<ul style="list-style-type: none"> There are mistakes in the following calculations. Explain the mistake and then make a correction to find the correct answer. $\begin{array}{r} 2451 \\ +562 \\ \hline 8071 \end{array}$ $\begin{array}{r} 782 \\ -435 \\ \hline 353 \end{array}$ $\square - 555 = 8 \square 5$ What is the largest possible number that will go in the rectangular box? What is the smallest? Convince me. Write three calculations where you would use mental calculations and three where you would use the column method. Explain the decision you made for each calculation. 	<ul style="list-style-type: none"> A game to play for two people. The aim of the game is to get a number as close to 5000 as possible. Each child rolls a 1-6 die and chooses where to put the number on their grid or the other players. Once they have filled their grids then they add up their totals to see who has won. <table border="1" style="margin: 10px auto;"> <tr> <td></td> <td>?</td> <td>?</td> <td>?</td> <td>?</td> </tr> <tr> <td>+</td> <td>?</td> <td>?</td> <td>?</td> <td>?</td> </tr> </table> A chocolate factory usually produce 1568 caramel bars on a Saturday but on a Sunday production decreases and they make 325 fewer bars. How many bars are produced at the weekend in total? All of the digits below are either a 3 or a 9. Can you work out each digit? $7338 = \square\square\square\square + \square\square\square\square$?	?	?	?	+	?	?	?	?
	?	?	?	?										
+	?	?	?	?										

	National Curriculum Statement	All students													
		Fluency	Reasoning	Problem Solving											
Addition and Subtraction	<p>Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.</p>	<ul style="list-style-type: none"> There are 2452 people at a theme park. 538 are children, how many are adults? <p>Sarah draws a diagram to help. Place a (✓) next to the correct diagram</p> <table border="1" style="margin-bottom: 10px;"> <tr><td>Adults</td></tr> <tr><td>2452</td></tr> <tr><td>538</td></tr> </table> <table border="1" style="margin-bottom: 10px;"> <tr><td>2452</td></tr> <tr><td>Adults</td></tr> <tr><td>538</td></tr> </table> <table border="1"> <tr><td>538</td></tr> <tr><td>2452</td></tr> <tr><td>Adults</td></tr> </table> <p>Use the correct diagram to help you solve the problem.</p>	Adults	2452	538	2452	Adults	538	538	2452	Adults	<ul style="list-style-type: none"> Archie and Sophie are both working out the answer to the following question: $350 + 278 + 250$ They have both used different strategies. <table border="1" style="margin-bottom: 10px;"> <tr> <td><u>Archie's method</u> 350+ 278+ 250 350+ 278= 628 628 + 250= 878 Answer = 878</td> <td><u>Sophie's method</u> 350+278+250 350+250= 600 600+ 278= 878 Answer= 878</td> </tr> </table> <p>Which do you prefer? Explain why. Use the method you preferred to solve $320+ 458 + 180$</p>	<u>Archie's method</u> 350+ 278+ 250 350+ 278= 628 628 + 250= 878 Answer = 878	<u>Sophie's method</u> 350+278+250 350+250= 600 600+ 278= 878 Answer= 878	<ul style="list-style-type: none"> Alice is trying to complete a sticker book. It needs 350 stickers overall. She has 134 in the book and a further 74 ready to stick in. How many more stickers will she need? A supermarket has 1284 loaves of bread at the start of the day. During the day, 857 loaves are sold and a further 589 loaves are delivered. How many loaves of bread are there at the end of the day? John is having a garden party. He will need to make 412,250 sandwiches in total. He makes 28,000 tuna, 51,000 cheese, 84,500 ham and 75,025 egg. He decides to make the rest cucumber. How many cucumber sandwiches will there be?
Adults															
2452															
538															
2452															
Adults															
538															
538															
2452															
Adults															
<u>Archie's method</u> 350+ 278+ 250 350+ 278= 628 628 + 250= 878 Answer = 878	<u>Sophie's method</u> 350+278+250 350+250= 600 600+ 278= 878 Answer= 878														