



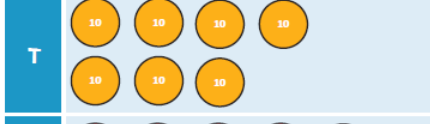

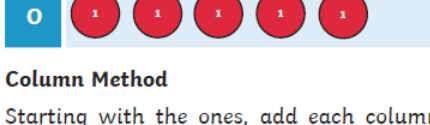
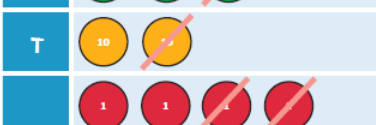
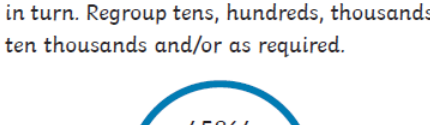
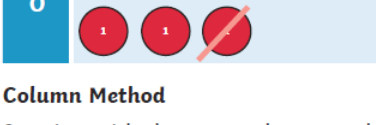
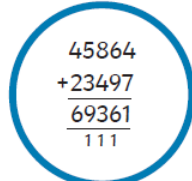
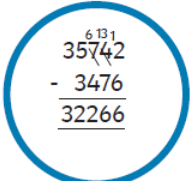
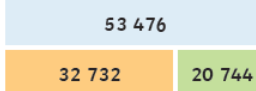





In maths we are learning about...

Addition and Subtraction		Knowledge Organiser
Key Vocabulary	Addition	Subtraction
Add	Place Value Grid: $3274 + 5601 = 8875$	Place Value Grid: $35\ 727 - 6313 = 29\ 414$
Total		
Make		
Plus		
Sum		
More		
Altogether		
Difference		
Subtract		
Less		
Minus		
Take away	Column Method	Column Method
Column addition	Starting with the ones, add each column in turn. Regroup tens, hundreds, thousands, ten thousands and/or as required.	Starting with the ones, subtract each column in turn. Exchange tens, hundreds, thousands and/or ten thousands as required.
Column subtraction		
Estimate		
Inverse operation		
Number facts		
Place value		
Complex		

Addition and Subtraction		Knowledge Organiser						
Estimate and Approximate	Inverse Operations							
Rounding to Estimate	Use the inverse to check:							
$41\ 635 + 7386 = 49\ 021$		To check $53\ 476 - 32\ 732 = 20\ 744$ use $32\ 732 + 20\ 744 = 53\ 476$						
Round to ten:	Start with a number, subtract 409 and double. I end with 6264. To find the starting number use the inverse: halve, then add 409. Half of 6264 = 3132. $3132 + 409 = 3541$. The starting number was 3541.							
$41\ 630 + 7380 = 49\ 010$	Multistep Problems							
$41\ 630 + 7390 = 49\ 020$	Using a Bar Model							
$41\ 640 + 7390 = 49\ 030$	The sum of two numbers is 25 567. The difference is 1875.							
Rounding is not as accurate when both numbers are rounded up. A better estimate comes from "rounding" one down and one up.	Subtract 1875 from 25 567 = 23 692. Halve 23 692 to find smaller number = 11 846. Add 1875 to find larger number = 13 721.							
Estimating on a Number Line								
The arrow is about $\frac{3}{4}$ of the way across the line so it is 40 000.	<table border="1"> <tr> <td>£20</td> <td>£20 is used to buy 2 books costing £3.75 and £8.49.</td> </tr> <tr> <td>£3.75 £8.49 ?</td> <td></td> </tr> <tr> <td>£12.24 £7.76</td> <td>How much change is given?</td> </tr> </table>	£20	£20 is used to buy 2 books costing £3.75 and £8.49.	£3.75 £8.49 ?		£12.24 £7.76	How much change is given?	
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£3.75 £8.49 ?								
£12.24 £7.76	How much change is given?							
	$£3.75 + £8.49 = £12.24$ $£20.00 - £12.24 = £7.76$							