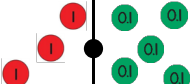
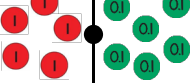
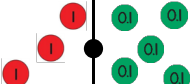
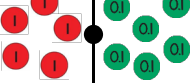
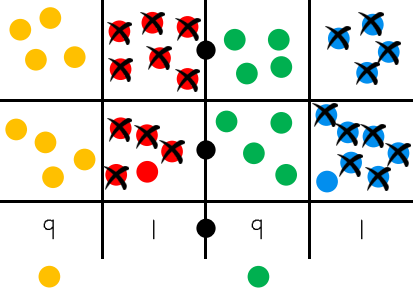
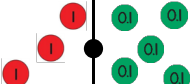
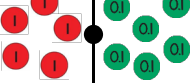


Year 5 Maths

Addition

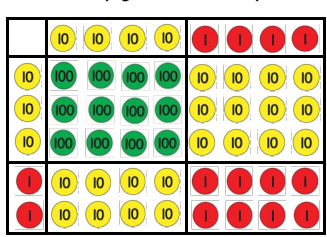
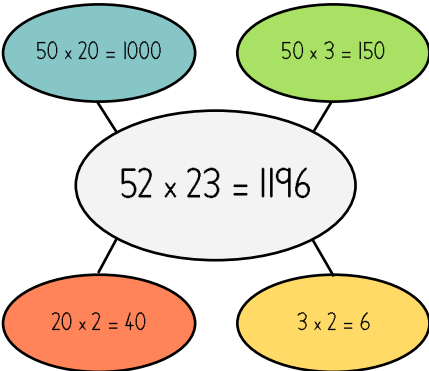
Concrete	Pictorial	Abstract																				
Adding numbers including decimals																						
Use a place value grid with counters to aid adding. Add columns, starting with the smallest value column and working up to the largest, exchanging where required. $43.52 + 25.61 = 69.13$ <table border="1"><thead><tr><th>T</th><th>O</th><th>t</th><th>h</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td>9</td><td>1</td><td>3</td></tr></tbody></table> 	T	O	t	h									6	9	1	3	Draw a representation of a place value grid to show the exchanging of values underneath the columns.  $46.44 + 45.57 = 91.91$ Draw bar models to represent addition calculations. <table border="1"><tr><td colspan="2">91.91</td></tr><tr><td>46.44</td><td>45.57</td></tr></table>	91.91		46.44	45.57	Add numbers, including those with decimals, using the formal written column method, making the link with place value. $\begin{array}{r} 27.43 \\ + 18.62 \\ \hline 46.05 \end{array}$
T	O	t	h																			
																						
																						
6	9	1	3																			
91.91																						
46.44	45.57																					

Subtraction

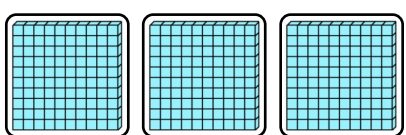
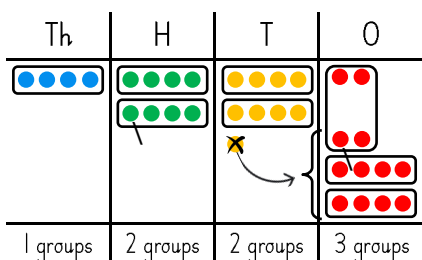
Concrete	Pictorial	Abstract																																				
Subtracting numbers including decimals																																						
Use place value counters to model exchanging when subtracting numbers including decimals. <table><tr><th>T</th><th>O</th><th>t</th><th>h</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> $33.42 - 4.23 = 29.19$	T	O	t	h													Draw the place value counters into a place value grid, then subtract from right to left, demonstrating exchanging where needed. <table><tr><th>T</th><th>O</th><th>t</th><th>h</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> $48.35 - 18.74 = 29.61$ Draw bar models to represent subtraction calculations. <table><tr><td>29.61</td><td></td></tr><tr><td>?</td><td>18.74</td></tr></table>	T	O	t	h													29.61		?	18.74	Subtract numbers, including those with decimals, using the formal written column method, making the link with place value. $\begin{array}{r} 16 \\ 48.35 \\ - 18.74 \\ \hline 29.61 \end{array}$
T	O	t	h																																			
T	O	t	h																																			
29.61																																						
?	18.74																																					

Year 5 Maths

Multiplication

Concrete	Pictorial	Abstract
Partitioning to multiply		
Use place value counters to partition the numbers into tens and ones. Multiply each row by each column, before recombining to find the product. 40 4  30 4 30 x 40 = 1200 30 x 4 = 120 40 x 2 = 80 2 x 4 = 8 44 x 32 = 1408	Use part-whole models to represent the partitioning of a number in order to multiply it. Recombine the totals to find the product. 	Use the formal written method of column multiplication, showing the multiplication of the different parts of the number. $ \begin{array}{r} 1274 \\ \times 32 \\ \hline 2548 \\ 38220 \\ \hline 40768 \end{array} $ 1,274 x 2 1,274 x 30 1,274 x 32

Division

Concrete	Pictorial	Abstract
Divide up to 4 digits using short division		
Use practical resources to explore grouping in larger numbers. 396 ÷ 3 = 132  300 ÷ 3 = 100 90 ÷ 3 = 30 6 ÷ 3 = 2	Explore grouping to divide on a place value grid, exchanging, where required. 4892 ÷ 4 = 1223  Th H T O 1 groups 2 groups 2 groups 3 groups	Use short division to divide up to 4-digit numbers by a single digit. $ \begin{array}{r} 0556 \\ 7 \overline{) 338942} \end{array} $ Multiplication should be used to check answers. 556 x 7 = ? 500 x 7 = 3500 50 x 7 = 350 6 x 7 = 42 556 x 7 = 3892