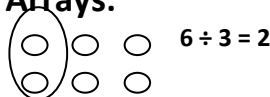
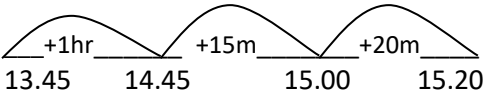
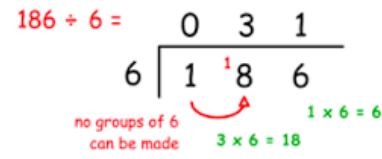
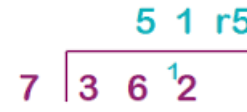
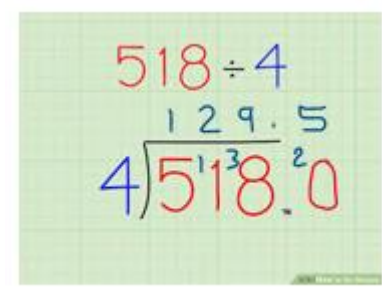


	Addition	Subtraction	Multiplication	Division						
Y3	<p>Mentally Methods:</p> <ul style="list-style-type: none"> - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds <p>Empty number line</p> <p>Partitioning:</p> <p>145 + 121 = <u>266</u> 100 + 100 = 200 40 + 20 = 60 5 + 1 = 6</p> <p>Column Method:</p> $\begin{array}{r} 123 \\ + 113 \\ \hline 236 \end{array}$	<p>Mentally Methods:</p> <ul style="list-style-type: none"> - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds <p>Empty number line</p> <p>Partitioning:</p> <p>245 - 121 = <u>124</u> 200 - 100 = 100 40 - 20 = 20 5 - 1 = 4</p> <p>Column Method:</p> $\begin{array}{r} 341 \\ - 22 \\ \hline 19 \end{array}$	<p>Related facts (inc. missing number)</p> <p>4 x 2 = 8 means 400 x 2 = 800</p> <p>Partitioning:</p> <p>20 x 6 = 120 3 x 6 = 18 so 23 x 6 = 138</p> <p>Grid Method:</p> <p>35 x 7 =</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>x</td> <td>30</td> <td>5</td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> </table>	x	30	5	7			<p>Arrays:</p>  <p>6 ÷ 3 = 2</p> <p>Related facts (inc. missing number)</p> <p>5 x 9 = 45 means 45 ÷ 5 = 9</p> <p>Bus Stop Method:</p> <p>(2 & 3 digit)</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">76 ÷ 2 = 38</p> $\begin{array}{r} 38 \\ 2 \overline{) 76} \\ \underline{6} \\ 16 \\ \underline{16} \\ 0 \end{array}$ </div>
x	30	5								
7										

	Addition	Subtraction	Multiplication	Division						
Y4	<p>Column Method:</p> $\begin{array}{r} 4790 \\ + 462 \\ \hline 5252 \\ \hline \end{array}$ <p style="text-align: center;">± ±</p>	<p>Column Method:</p> $\begin{array}{r} 356^{12} \\ - 125 \\ \hline 237 \end{array}$	<p>Column Method:</p> <p>Compact - 2 & 3 digit by 1 digit</p> <p style="text-align: center;">123 × 5</p> <table style="width: 100%; text-align: center;"> <tr> <td style="color: red;">1st Step</td> <td style="color: red;">2nd Step</td> <td style="color: red;">3rd Step</td> </tr> <tr> <td>$\begin{array}{r} 123 \\ \times 5 \\ \hline 5 \\ \hline 1 \end{array}$</td> <td>$\begin{array}{r} 123 \\ \times 5 \\ \hline 15 \\ \hline 11 \end{array}$</td> <td>$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline 11 \end{array}$</td> </tr> </table>	1st Step	2nd Step	3rd Step	$\begin{array}{r} 123 \\ \times 5 \\ \hline 5 \\ \hline 1 \end{array}$	$\begin{array}{r} 123 \\ \times 5 \\ \hline 15 \\ \hline 11 \end{array}$	$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline 11 \end{array}$	<p>Bus Stop Method</p> <p>(2 & 3 digit by 1 digit)</p> <div style="border: 1px solid lightblue; padding: 10px; margin: 10px 0;"> $76 \div 2 = 38$ $\begin{array}{r} 38 \\ 2 \overline{) 76} \end{array}$ </div> $186 \div 6 =$ $\begin{array}{r} 031 \\ 6 \overline{) 186} \end{array}$ <p style="color: red; font-size: small;">no groups of 6 can be made</p> <p style="color: green; font-size: small;">1 × 6 = 6 3 × 6 = 18</p>
1st Step	2nd Step	3rd Step								
$\begin{array}{r} 123 \\ \times 5 \\ \hline 5 \\ \hline 1 \end{array}$	$\begin{array}{r} 123 \\ \times 5 \\ \hline 15 \\ \hline 11 \end{array}$	$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline 11 \end{array}$								

	Addition	Subtraction	Multiplication	Division
Y5	<p>Column Method:</p> $\begin{array}{r} 5273 \\ + 3137 \\ \hline 8410 \\ \text{± ±} \end{array}$ <p>Number-line: (Time)</p> 	<p>Column Method:</p> $\begin{array}{r} 35612 \\ - 125 \\ \hline 237 \end{array}$ <p>Column Method Across Zero:</p> $\begin{array}{r} 120914 \\ - 127 \\ \hline 077 \end{array}$	<p>Column Method:</p> <p>Short multiplication</p> $\begin{array}{r} 4926 \\ \times 8 \\ \hline 39408 \\ \text{7 2 4} \end{array}$ <p>Long multiplication</p> $\begin{array}{r} 237 \\ \times 24 \\ \hline 9428 \\ 4740 \\ \hline 5688 \\ \text{±} \end{array}$	<p>Bus Stop Method (including remainders and decimals)</p> <p>$186 \div 6 =$</p>  <p>$362 \div 7 =$</p>  <p>$362 \div 7 = 51 \text{ r}5$</p> <hr/>  <p>Introduce Speed Writing for long division (speak to upper KS2 staff)</p>

	Addition	Subtraction	Multiplication	Division
Y6	<p>Column Method:</p> $\begin{array}{r} 5273 \\ + 3137 \\ \hline 8410 \\ \small{\substack{\uparrow \uparrow}} \end{array}$ <p>Number-line: (Time) Jim started his day 7.44am. Drove for 4hrs22mins. What time did he arrive?</p>	<p>Column Method:</p> $\begin{array}{r} 35612 \\ - 125 \\ \hline 237 \end{array}$	<p>Column Method:</p> <p>Long multiplication</p> $\begin{array}{r} 237 \\ \times 24 \\ \hline 948 \\ 4740 \\ \hline 5688 \\ \small{\substack{\uparrow}} \end{array}$	<p>Bus Stop Method:</p> <p>Long Division (Speed Writing):</p>