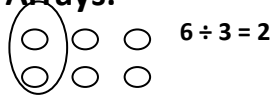


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St Mary's C of E Primary School Calculation Policy

	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> $145 + 121 = \underline{266}$ $100 + 100 = 200$ $40 + 20 = 60$ $5 + 1 = 6$ <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> $245 - 121 = \underline{124}$ $200 - 100 = 100$ $40 - 20 = 20$ $5 - 1 = 4$ <p>Column Method:</p> $\begin{array}{r} 41 \\ - 22 \\ \hline 19 \end{array}$	<p>Related facts (inc. missing number)</p> <p>$4 \times 2 = 8$ means $400 \times 2 = 800$</p> <p>Partitioning:</p> $20 \times 6 = 120$ $3 \times 6 = 18$ <p>so $23 \times 6 = 138$</p> <p>Grid Method:</p> $35 \times 7 =$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;">×</td> <td style="padding: 5px;">30</td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">7</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </table>	×	30	5	7			<p>Arrays:</p>  <p>Related facts (inc. missing number)</p> <p>$5 \times 9 = 45$ means $45 \div 5 = 9$</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;">$76 \div 2 = 38$</p> $\begin{array}{r} 38 \\ 2 \overline{)76} \\ \underline{6} \\ 16 \\ \underline{16} \\ 0 \end{array}$ </div>
×	30	5								
7										

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St Mary's C of E Primary School Calculation Policy

	Addition	Subtraction	Multiplication	Division						
Y4	<p>Column Method:</p> $\begin{array}{r} 4790 \\ + 462 \\ \hline 5252 \\ \hline \end{array}$	<p>Column Method:</p> $\begin{array}{r} 35612 \\ - 125 \\ \hline 237 \\ \hline \end{array}$	<p>Column Method:</p> <p>Compact - 2 & 3 digit by 1 digit</p> 123×5 <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center; color: red;">1st Step</td> <td style="text-align: center; color: red;">2nd Step</td> <td style="text-align: center; color: red;">3rd Step</td> </tr> <tr> <td style="text-align: center;"> $\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$ </td> <td style="text-align: center;"> $\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$ </td> <td style="text-align: center;"> $\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$ </td> </tr> </table>	1st Step	2nd Step	3rd Step	$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$	$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$	$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$	<p>Bus Stop Method</p> <p>(2 & 3 digit by 1 digit)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> $76 \div 2 = 38$ $\begin{array}{r} 38 \\ 2 \overline{) 76} \\ \underline{6} \\ 16 \\ \underline{16} \\ 0 \end{array}$ </div>
1st Step	2nd Step	3rd Step								
$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$	$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$	$\begin{array}{r} 123 \\ \times 5 \\ \hline 615 \\ \hline \end{array}$								

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St Mary's C of E Primary School Calculation Policy

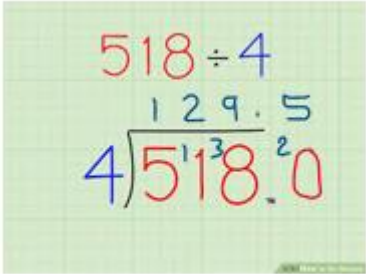
	Addition	Subtraction	Multiplication	Division
Y5	<p>Column Method:</p> $\begin{array}{r} 5273 \\ + 3137 \\ \hline 8410 \\ \text{± ±} \end{array}$ <p>Number-line: (Time)</p>	<p>Column Method:</p> $\begin{array}{r} 35612 \\ - 125 \\ \hline 237 \end{array}$ <p>Column Method Across Zero:</p> $\begin{array}{r} 120914 \\ - 127 \\ \hline 077 \end{array}$	<p>Column Method:</p> <p>Short multiplication</p> $\begin{array}{r} 4926 \\ \times \quad 8 \\ \hline 39408 \\ \text{7 2 4} \end{array}$ <p>Long multiplication</p> $\begin{array}{r} 237 \\ \times \quad 24 \\ \hline \end{array}$	<p>Bus Stop Method (including remainders and decimals)</p>

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	Addition	Subtraction	Multiplication	Division
			$\begin{array}{r} 9 4 8 \\ 4 7 4 0 \\ \hline 5 6 8 8 \\ 1 \end{array}$	
Y6	<p>Column Method:</p> $\begin{array}{r} 5 2 7 3 \\ + 3 1 3 7 \\ \hline 8 4 1 0 \\ 1 1 \end{array}$	<p>Column Method:</p> $\begin{array}{r} 3 6 12 \\ - 1 2 5 \\ \hline 2 3 7 \end{array}$	<p>Column Method:</p> <p>Long multiplication</p> $\begin{array}{r} 2 3 7 \\ \times 2 4 \\ \hline 9 4 8 \\ 4 7 4 0 \end{array}$	<p>Bus Stop Method:</p> <p>Long Division (Speed Writing):</p>

Introduce Speed Writing for long division (speak to upper KS2 staff)

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Addition	Subtraction	Multiplication	Division
<p>Number-line: (Time) Jim started his day 7.44am. Drove for 4hrs22mins. What time did he arrive?</p>		<p>5 6 8 8 ±</p>	<p>REMEMBER</p> <ul style="list-style-type: none"> ÷ divide X multiply - subtract ↓ carry down <p>REPEAT WHERE NEEDED</p>