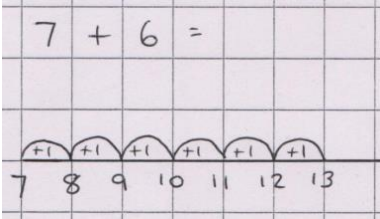
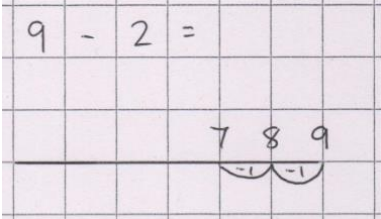
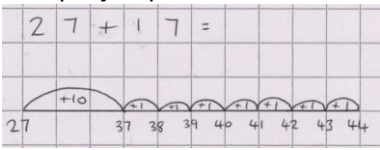
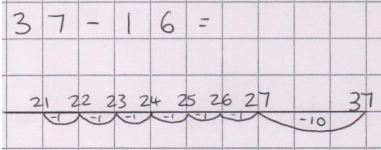
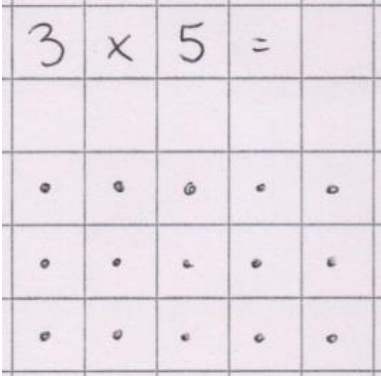
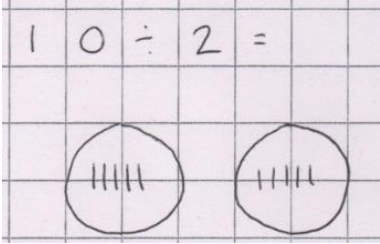
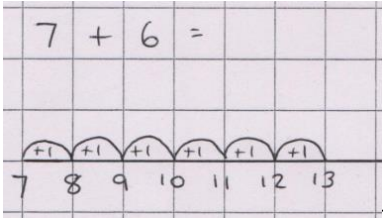
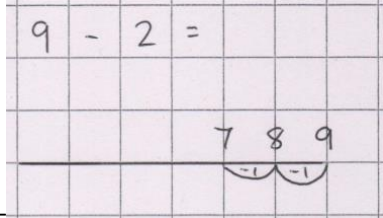
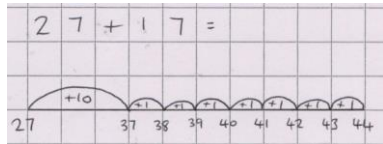
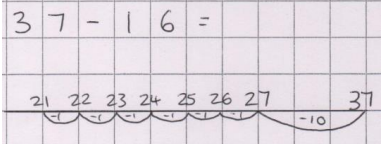
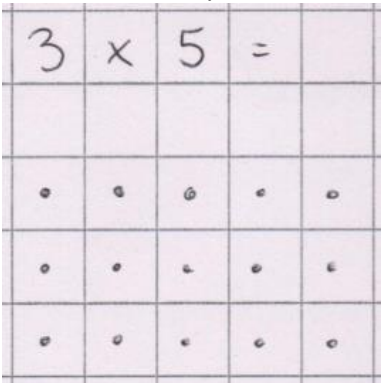
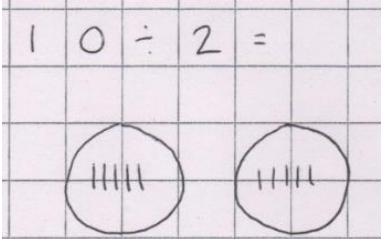
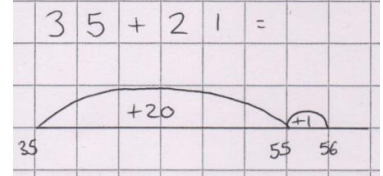
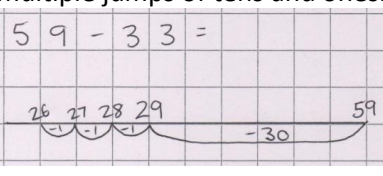
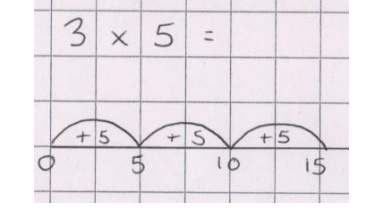
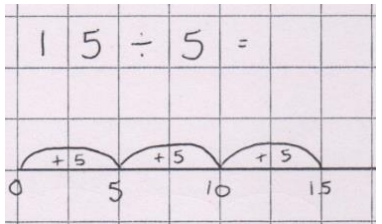
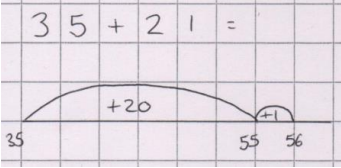
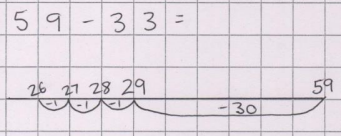
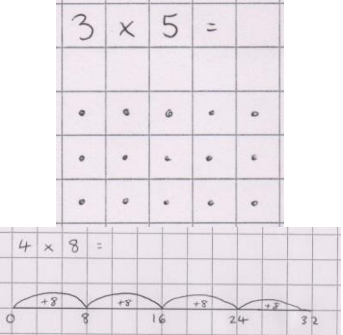
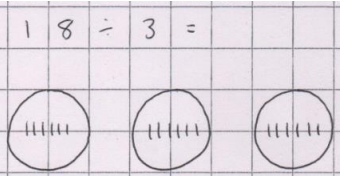

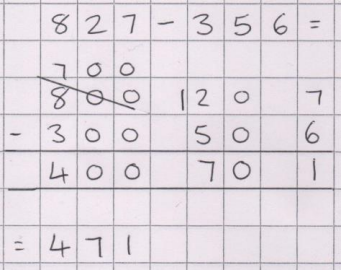
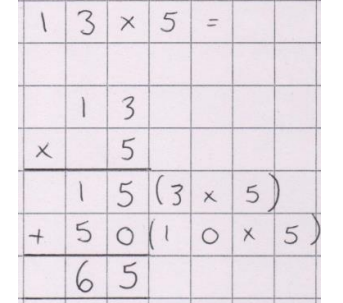

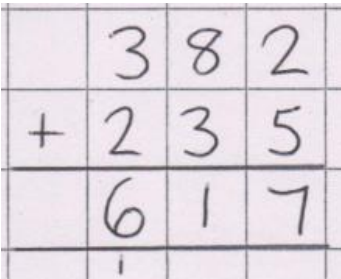
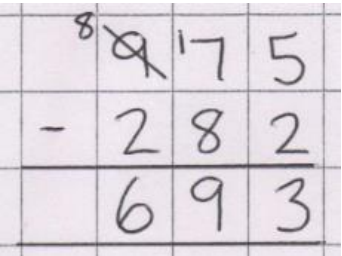
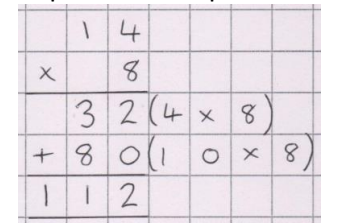
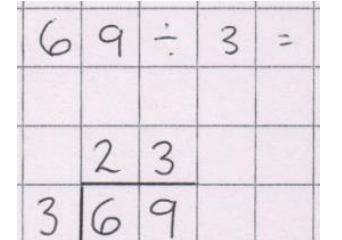
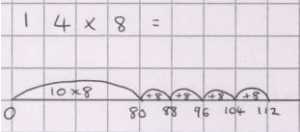



Written Calculations	Addition	Subtraction	Multiplication	Division
Below Y1	-	-	-	-
At Y1	<p>Number lines with jumps of ones.</p> 	<p>Number lines with jumps of ones.</p> 	-	-
Above Y1	<p>Number lines with jumps of multiple jumps of tens and ones.</p> 	<p>Number lines with jumps of multiple jumps of tens and ones.</p> 	<p>Arrays</p> 	<p>Grouping</p> 

Written Calculations	Addition	Subtraction	Multiplication	Division
Below Y2	Number lines with ones. 	Number lines with ones. 	-	-
At Y2	Number lines with jumps of tens and ones. 	Number lines with jumps of tens and ones. 	Arrays 	Grouping 
Above Y2	Number lines with jumps of multiple jumps of tens and ones. 	Number lines with jumps of multiple jumps of tens and ones. 	Number lines 	Number lines 

Written Calculations	Addition	Subtraction	Multiplication	Division
Below Y3	<p>Number lines with jumps of multiple jumps of tens and ones.</p> 	<p>Number lines with jumps of multiple jumps of tens and ones.</p> 	<p>Arrays</p> 	<p>Grouping</p> 
At Y3	<p>Expanded column addition.</p> 	<p>Expanded column subtraction.</p> 	<p>Expanded multiplication.</p> 	<p>Number lines</p> 
Above Y3	<p>Column addition</p> 	<p>Column subtraction.</p> 	<p>Expanded multiplication.</p>  <p>(with a number higher than 1 in the tens column)</p>	<p>Short division (bus stop) with no exchanging/carrying</p> 

Written Calculations	Addition	Subtraction	Multiplication	Division
Below Y4	<p>Expanded column addition.</p> $\begin{array}{r} 422 + 125 = \\ 400 \quad 20 \quad 2 \\ + 100 \quad 20 \quad 5 \\ \hline 500 + 40 + 7 \\ \hline = 547 \end{array}$ $\begin{array}{r} 765 + 235 = \\ 700 \quad 60 \quad 5 \\ + 200 \quad 30 \quad 5 \\ \hline 900 + 90 + 10 \\ \hline = 1000 \end{array}$	<p>Expanded column subtraction.</p> $\begin{array}{r} 827 - 356 = \\ 700 \quad 120 \quad 7 \\ - 300 \quad 50 \quad 6 \\ \hline 400 \quad 70 \quad 1 \\ \hline = 471 \end{array}$	<p>Number line</p> 	<p>Number line.</p> 
At Y4	<p>Column addition.</p> $\begin{array}{r} 9874 \\ + 1294 \\ \hline 11168 \\ \hline \end{array}$	<p>Column subtraction.</p> $\begin{array}{r} 6925 \\ - 4619 \\ \hline 2306 \end{array}$	<p>Expanded column multiplication.</p> $\begin{array}{r} 14 \\ \times 8 \\ \hline 32 \quad (4 \times 8) \\ + 80 \quad (10 \times 8) \\ \hline 112 \end{array}$	<p>Short division (bus stop) without exchanging.</p> $\begin{array}{r} 84 \div 4 = \\ \hline 21 \\ 4 \overline{) 84} \end{array}$
Above Y4	<p>Column addition</p> $\begin{array}{r} 17.21 \\ + 4.31 \\ \hline 21.52 \end{array}$	<p>Column subtraction</p> $\begin{array}{r} 97465 \\ - 3924 \\ \hline 94541 \end{array}$	<p>Short multiplication.</p> $\begin{array}{r} 129 \\ \times 7 \\ \hline 903 \\ \hline 26 \end{array}$	<p>Short division (bus stop) with exchanges.</p> $\begin{array}{r} 364 \div 7 = \\ \hline 052 \\ 7 \overline{) 364} \end{array}$

Written Calculations	Addition	Subtraction	Multiplication	Division																																																																																																																																																																																																																																																																				
Below Y5	<p>Column addition</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td> </td><td>9</td><td>8</td><td>7</td><td>4</td></tr> <tr><td>+</td><td>1</td><td>2</td><td>9</td><td>4</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td> </td><td>1</td><td>1</td><td>1</td><td>6</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>8</td></tr> </table>		9	8	7	4	+	1	2	9	4	<hr/>						1	1	1	6					8	<p>Expanded subtraction</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>8</td><td>2</td><td>7</td><td>-</td><td>3</td><td>5</td><td>6</td><td>=</td></tr> <tr><td>7</td><td>0</td><td>0</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>8</td><td>0</td><td>0</td><td> </td><td>1</td><td>2</td><td>0</td><td> </td></tr> <tr><td>-</td><td>3</td><td>0</td><td>0</td><td>5</td><td>0</td><td>6</td><td> </td></tr> <tr><td>4</td><td>0</td><td>0</td><td> </td><td>7</td><td>0</td><td>1</td><td> </td></tr> <tr><td colspan="8"><hr/></td></tr> <tr><td>=</td><td>4</td><td>7</td><td>1</td><td> </td><td> </td><td> </td><td> </td></tr> </table>	8	2	7	-	3	5	6	=	7	0	0						8	0	0		1	2	0		-	3	0	0	5	0	6		4	0	0		7	0	1		<hr/>								=	4	7	1					<p>Expanded multiplication</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td> </td><td>1</td><td>5</td><td>4</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>x</td><td> </td><td> </td><td>6</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td colspan="8"><hr/></td></tr> <tr><td> </td><td> </td><td>2</td><td>4</td><td>(4 x 6)</td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td>3</td><td>0</td><td>0</td><td>(5 0 x 6)</td><td> </td><td> </td></tr> <tr><td>+</td><td> </td><td>6</td><td>0</td><td>0</td><td>(1 0 0 x 6)</td><td> </td><td> </td></tr> <tr><td colspan="8"><hr/></td></tr> <tr><td> </td><td>9</td><td>2</td><td>4</td><td> </td><td> </td><td> </td><td> </td></tr> </table>		1	5	4					x			6					<hr/>										2	4	(4 x 6)						3	0	0	(5 0 x 6)			+		6	0	0	(1 0 0 x 6)			<hr/>									9	2	4					<p>Short division</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>6</td><td>4</td><td>÷</td><td>7</td><td>=</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td> </td><td>0</td><td>5</td><td>2</td><td> </td><td> </td></tr> <tr><td>7</td><td>3</td><td>6</td><td>'</td><td>4</td><td> </td></tr> </table>	3	6	4	÷	7	=	<hr/>							0	5	2			7	3	6	'	4																																																																																												
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