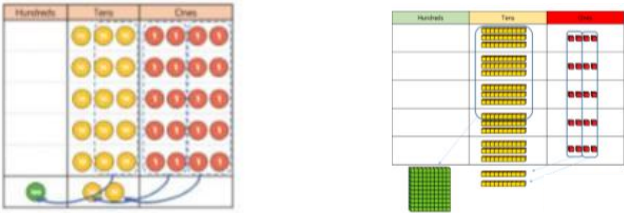
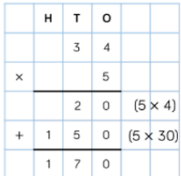
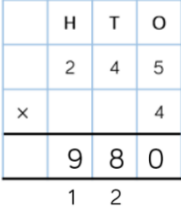
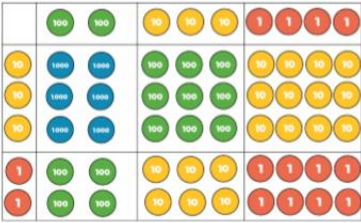




Written Methods: Multiplication

Year	Steps to success <i>The images below support the development of formal written methods. Bar models and other representations should be used to aid understanding.</i>	By the end of the year most children will confidently use these methods												
3	<p>Place value counters and base 10 should be used to support understanding of the expanded written method.</p> 	<p>Multiply 2-digit numbers by 1-digit numbers</p> $\begin{array}{r l} \times & 40 & 2 \\ \hline 7 & 280 & 14 \end{array}$  <p>The grid method should be used alongside the expanded written method.</p>												
4	<p>When moving towards 3-digit x 1-digit encourage children to use the formal written method but show alongside the grid method so that children can make connections.</p> <p>Base 10 and place value counters should continue to support the understanding of the written method. (see above)</p>	<p>Multiply 3-digit numbers by 1-digit numbers</p> $\begin{array}{r l} \times & 200 & 60 & 2 \\ \hline 6 & 1200 & 360 & 12 \end{array}$ 												
5	<p>The grid method should still be shown alongside the formal written method for children who need it to support their understanding. Place value counters and the area method should continue to be used where necessary.</p> <table border="1"> <tr> <td>×</td> <td>200</td> <td>30</td> <td>4</td> </tr> <tr> <td>30</td> <td>6,000</td> <td>900</td> <td>120</td> </tr> <tr> <td>2</td> <td>400</td> <td>60</td> <td>8</td> </tr> </table> 	×	200	30	4	30	6,000	900	120	2	400	60	8	<p>Multiply 4-digit numbers by 1-digit numbers (see methods above)</p> <p>Multiply 2 and 3-digit numbers by 2-digit numbers</p> 
×	200	30	4											
30	6,000	900	120											
2	400	60	8											
6	<p>The grid method should still be used alongside the formal written method where needed so that children can make connections.</p> <p>If children are still struggling with multiplication facts, they should be provided with multiplication grids whilst they are focussing on securing the formal written method.</p>	<p>Multiply 4-digit numbers by 2-digit numbers</p> 												

Written Methods: Multiplication