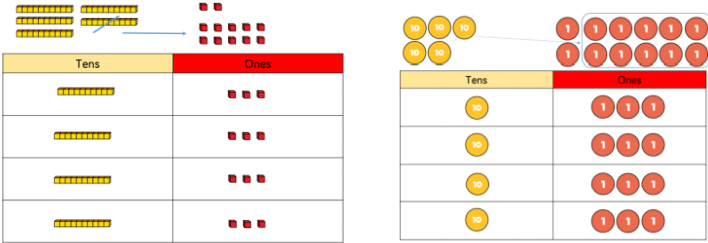
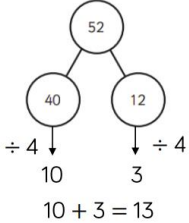
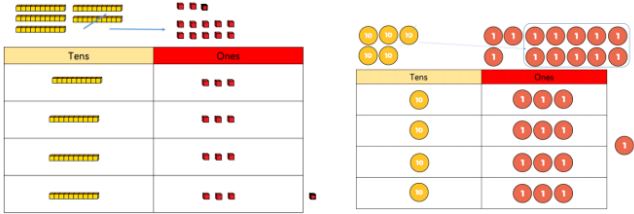
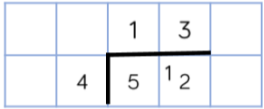





## Written Methods: Division

Year	<p style="text-align: center;"><b>Steps to success</b></p> <p><i>The images below are used to support the development of formal written methods. Bar models and other representations should be used to aid understanding.</i></p>	<p>By the end of the year <b>most</b> children will confidently use these methods</p>										
3	<p>Base 10 and counters are used on a grid to support understanding of division being grouping. Children understand that one ten can be exchanged for ten ones to aid for equal grouping to take place, <b>without remainders</b>.</p> 	<p><b>Divide 2-digit numbers by a 1-digit number using an informal written method</b></p> 										
4	<p>Base 10 and counters are used on a grid to support understanding of division being grouping. Children understand that one ten can be exchanged for ten ones to aid for equal grouping to take place. This is to <b>include remainders</b>.</p> 	<p><b>Divide 2-digit numbers by a 1-digit number</b></p> <p>Remainders should be given as whole numbers</p> 										
5	<p>Place value counters or plain counters can be used on a grid to support understanding. Children should be encouraged to move away from this though when dividing numbers with multiple exchanges.</p> 	<p><b>Divide 3- and 4-digit numbers by a 1-digit number</b></p> <p>Remainders should be given as whole numbers or fractions. They may also be rounded up or down according to the context</p> 										
6	<p>When children are ready to divide by 2-digit numbers, written methods become the most accurate as concrete/ pictorial methods are less efficient. Children should be encouraged to write out multiples to support their calculations.</p>	<p><b>Divide multi digits by 2-digits</b></p> <p>Remainders should be given as above. Where appropriate children should also be taught to give remainders as decimals</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <math>7,335 \div 15 = 489</math> </div>  <table border="1" style="margin-top: 10px; width: 100%; text-align: center;"> <tr> <td>15</td><td>30</td><td>45</td><td>60</td><td>75</td><td>90</td><td>105</td><td>120</td><td>135</td><td>150</td> </tr> </table>	15	30	45	60	75	90	105	120	135	150
15	30	45	60	75	90	105	120	135	150			

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