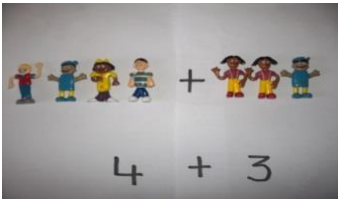
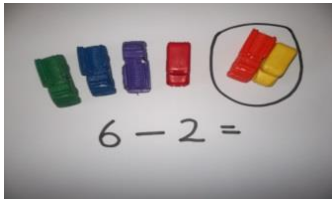
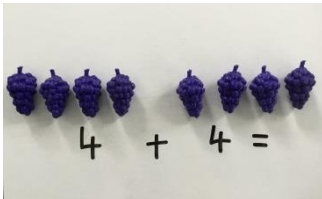
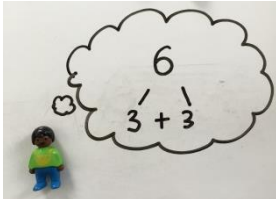
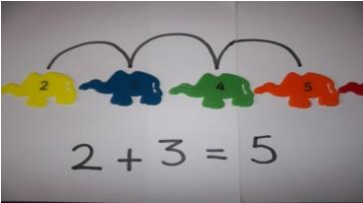
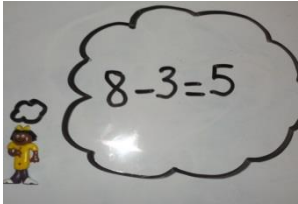
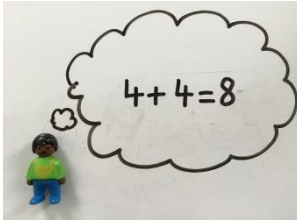
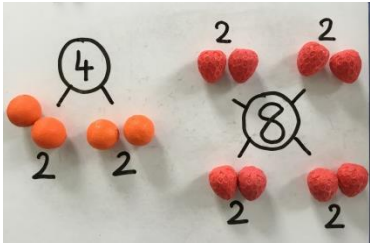
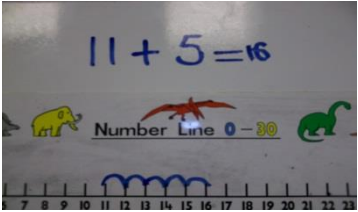
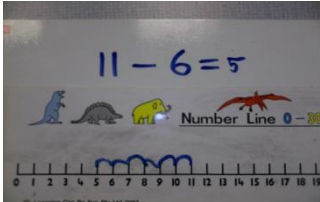
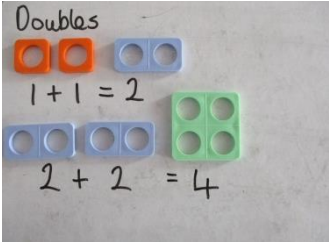
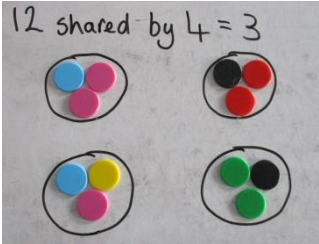
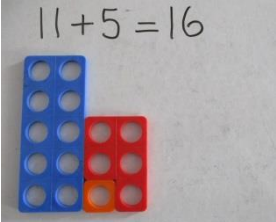
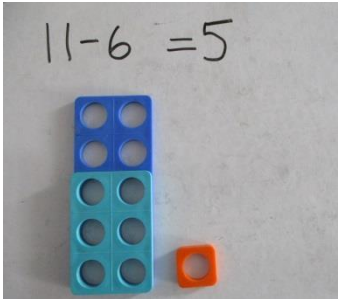
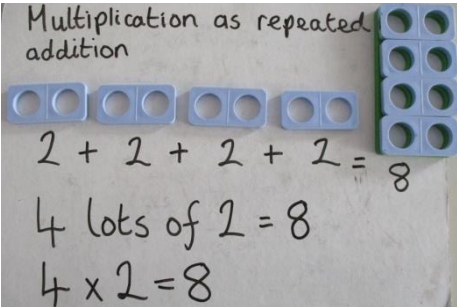
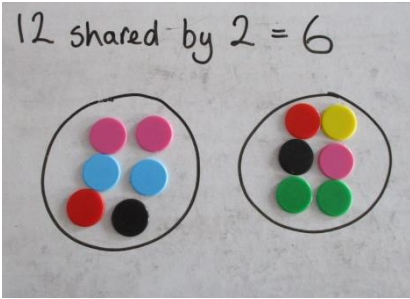


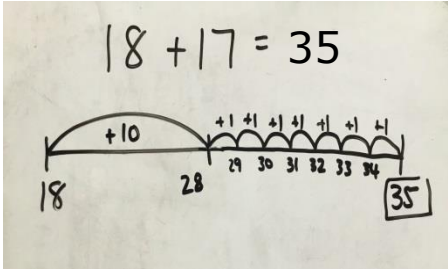
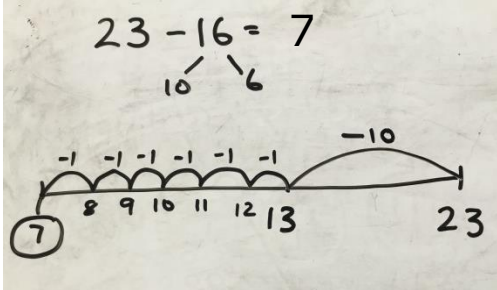
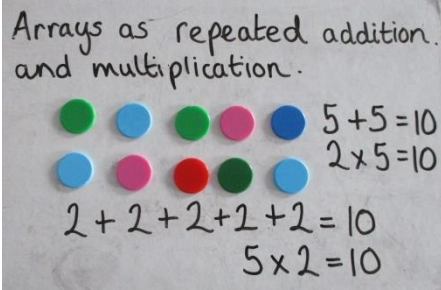
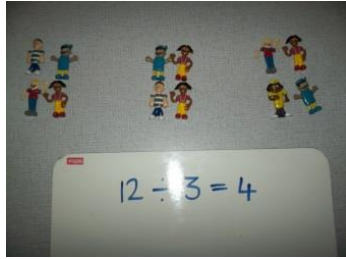
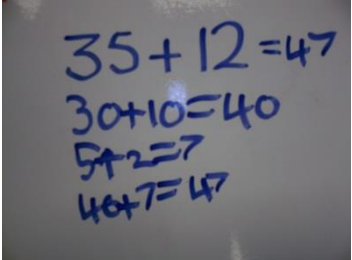
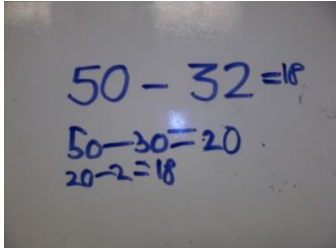
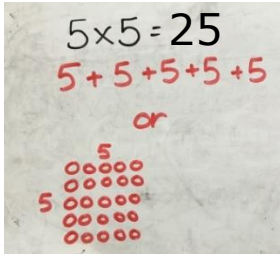
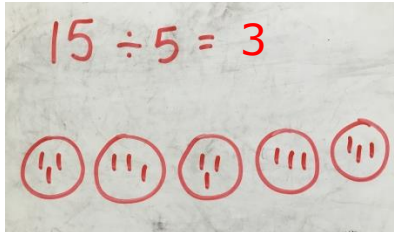
Examples of Written Calculation Strategies

EYFS			
Addition	Subtraction	Multiplication	Division
Combine two or more sets of objects up to 10. 	Take away objects from a set up to 10. 	Doubling the number of objects 	Sharing objects and finding half of sets. 
Addition	Subtraction	Multiplication	Division
Add by counting on up to 10. 	Subtract by counting back up to 10 without a number line. 	Recalling doubles 	Sharing objects equally. 

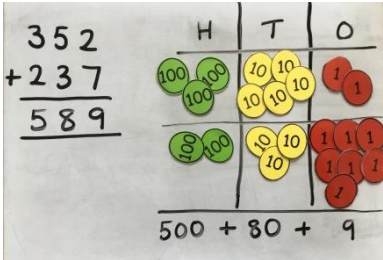
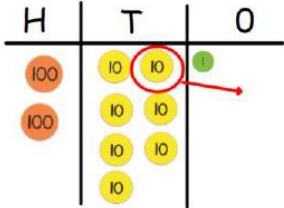
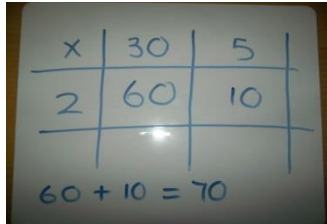
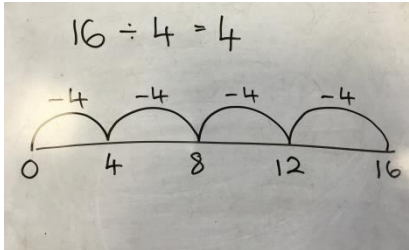
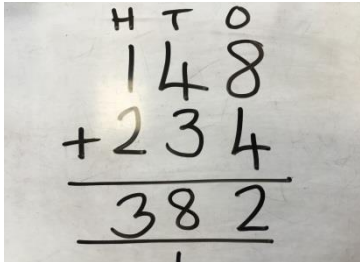
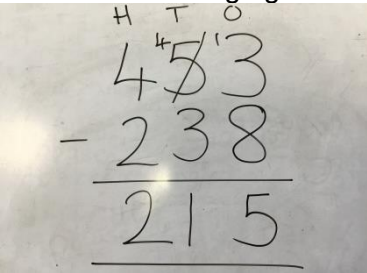
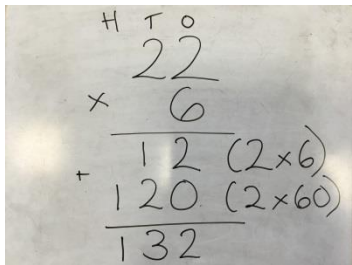
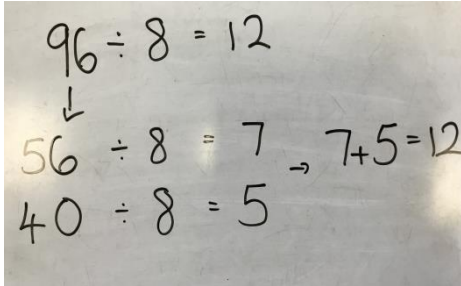
Year 1

Addition	Subtraction	Multiplication	Division
<p>Add a single digit to a 2-digit number up to 20 with a number line.</p> 	<p>Subtract a single digit from a 2-digit number up to 20 with a number line.</p> 	<p>Doubling numbers</p> 	<p>Divide by sharing objects.</p> 
Addition	Subtraction	Multiplication	Division
<p>Add a single digit to a 2-digit number with Numicon</p> 	<p>Subtract a single digit from a 2-digit number up to 20 with Numicon.</p> 	<p>Repeated addition</p> 	<p>Divide by sharing objects.</p> 

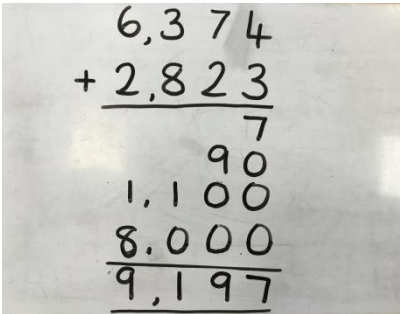
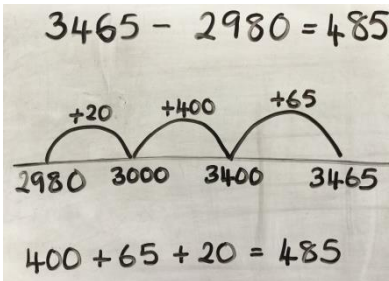
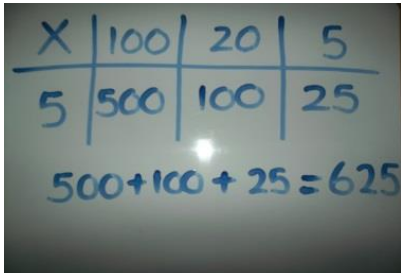
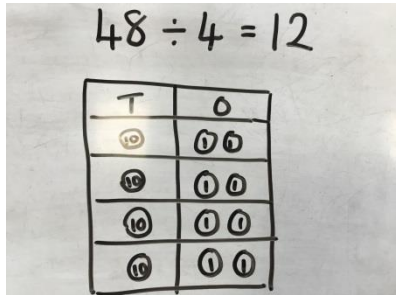
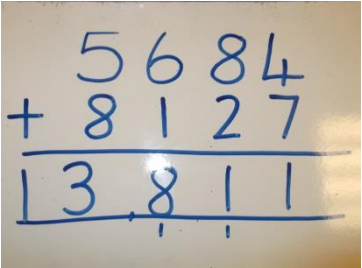
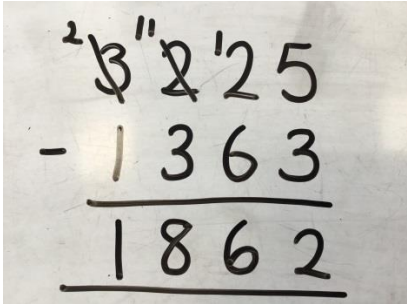
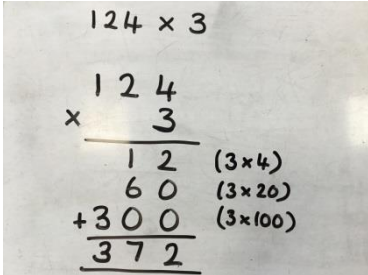
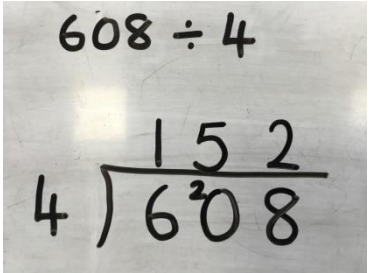
Year 2

Addition	Subtraction	Multiplication	Division
<p>Add two 2-digit numbers using a number line</p> 	<p>Subtract two 2-digit numbers using a number line</p> 	<p>Use arrays to link repeated addition to multiplication.</p> 	<p>Use concrete objects to divide</p> 
Addition	Subtraction	Multiplication	Division
<p>Add by partitioning into tens and ones.</p> 	<p>Subtract the tens and then the ones.</p> 	<p>Use arrays to link repeated addition to multiplication.</p> 	<p>Pictorial representation of dividing by sharing.</p> 

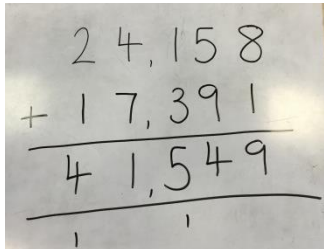
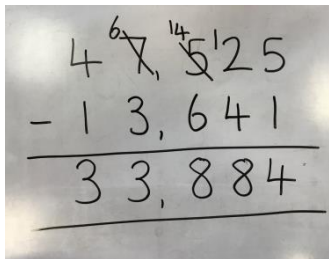
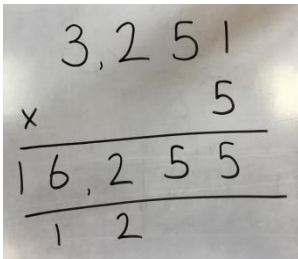
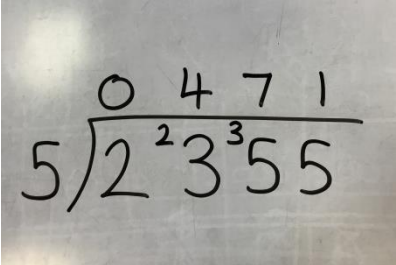
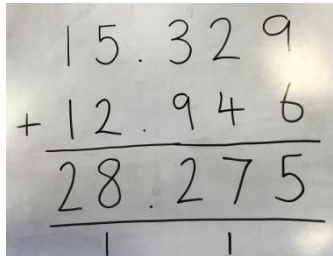
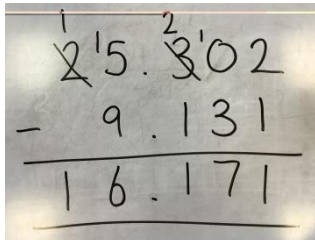
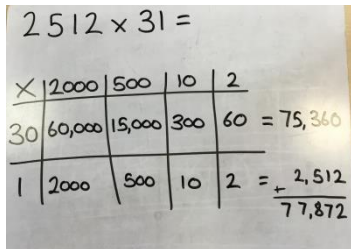
Year 3

Year 3			
Addition	Subtraction	Multiplication	Division
<p style="text-align: center;">Addition using place value counter</p> 	<p style="text-align: center;">Column subtraction exchanging tens with place value counters.</p> $372 - 165$ 	<p style="text-align: center;">Simple grid method 2 digit number x 1 digit number.</p> 	<p style="text-align: center;">Division by repeated subtraction</p> 
Addition	Subtraction	Multiplication	Division
<p style="text-align: center;">Column addition of two 3-digit numbers.</p> 	<p style="text-align: center;">Column subtraction of two 3-digit numbers with exchanging.</p> 	<p style="text-align: center;">Expanded column method multiplying a 2 digit number by a 1 digit number</p> 	<p style="text-align: center;">Division by partitioning using known number facts</p> 

Year 4

Year 4			
Addition	Subtraction	Multiplication	Division
<p>Column addition of two 4-digit numbers.</p> 	<p>By counting on on a number line</p> 	<p>Simple grid method using HTU x U using all tables.</p> 	<p>Short division by any single digit with place value counters if required.</p> 
Addition	Subtraction	Multiplication	Division
<p>Column addition of decimals to 2 decimal places (d.p.)</p> 	<p>Column subtraction of two 4-digit numbers.</p> 	<p>Multiply 2 and 3 digits by a single digit.</p> 	<p>Short division by any single digit with remainders.</p> 

Year 5

Year 5			
Addition	Subtraction	Multiplication	Division
<p>Column addition of two 5-digit numbers.</p> 	<p>Column subtraction of two 5-digit numbers.</p> 	<p>Multiply a 4-digit number by a 1-digit number.</p> 	<p>Short division: 4-digit number by a single digit.</p> 
Addition	Subtraction	Multiplication	Division
<p>Column addition up to 3 decimal places</p> 	<p>Column subtraction up to 3 decimal places</p> 	<p>Multiply a 4-digit number by a 2-digit number by partitioning.</p> 	<p>Short division: 4-digit by a single digit with a remainder</p> 