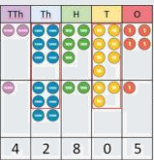
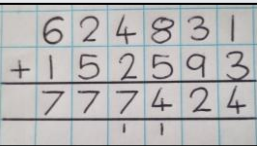
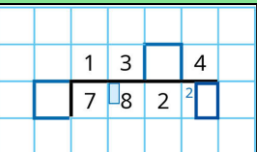

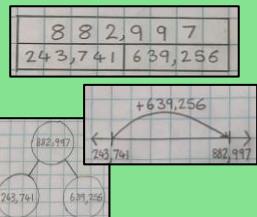

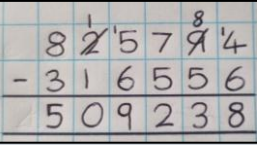
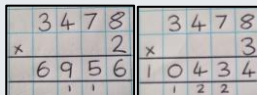
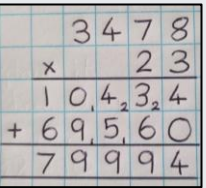
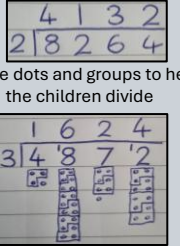
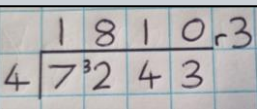

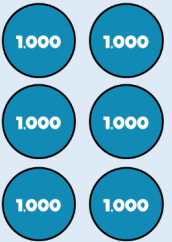


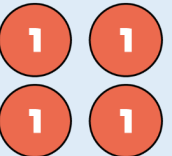

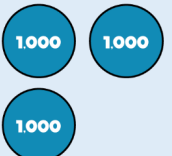

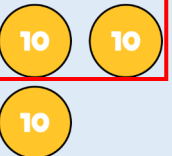



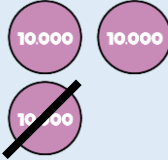
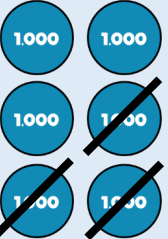
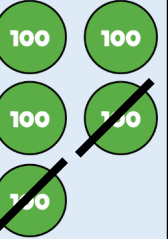
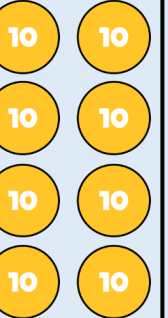

Year 5 Arithmetic Expectations

	How to support	Year 5 expectation	How to extend
Addition	<p>The use of counters in columns helps the children understand the steps of addition</p>  <p>"We exchange 10 tens for 1 hundred"</p>	<p>Any 6-digit number add any 6-digit number</p>  <p>Answer is called the sum</p>	<p>Missing number calculations</p>  <p>Multi-step word problems</p> <p>Two numbers have a difference of 1,200 and a total of 6,484. What are the two numbers?</p> <p>A packet of stickers contains 24 stickers. Ron buys 6 packets of stickers. He shares the stickers between himself and his two friends. How many stickers do they each get?</p> <p>Parameter questions</p> <p>I am thinking of a 3-digit number. It is between 500 and 550. It is divisible by 4. The digit sum is 13.</p>  <p>Use the clues to find all possible solutions.</p> <p>Always, sometimes, never true</p> <p>Is the statement always true, sometimes true or never true?</p> <p>When a 3-digit number made of consecutive, descending digits is divided by the next digit, the remainder is 1. For example, 765 ÷ 4 = 191 r1</p> <p>Explain your answer.</p> <p>Systematic thinking questions</p> <p>Write the missing digits to make the calculations correct.</p> <p>_ 3 _ + _ 3 = 300 _ 3 _ - _ 3 = 300</p> <p>How many possible solutions are there for each of the calculations?</p> <p>Represent answers in 3 different visual formats</p> 
Subtraction	<ol style="list-style-type: none"> Reduce the number of digits Use of counters and columns 	<p>Any 6-digit number subtract any 6-digit number</p>  <p>Answer is called the difference</p>	
multiplication	<p>Multiply numbers by a 1-digit number.</p>  <p>These 2 calculations would help a child understand the 2-digit multiplication to the right.</p>	<p>Any 4-digit number multiplied by any 2-digit number</p>  <p>Answer is called the Product</p>	
division	<ol style="list-style-type: none"> Choose numbers with no exchanges Use dots and groups to help the children divide 	<p>Any 4-digit number divided by any 1-digit number, with remainders</p>  <p>Answer is called the quotient</p>	

TTh	Th	H	T	O
				
				
3	9	8	1	5

100

		2	6	5	8	4	
	+	1	3	2	3	1	
		3	9	8	1	5	
				1			

TTh	Th	H	T	O
				
2	3	3	8	1

		3	6	5	8	2	
	-	1	3	2	0	1	
		<u>2</u>	<u>3</u>	<u>3</u>	<u>8</u>	<u>1</u>	

$$251 \times 3 = 753$$

H	T	O
100 100	10 10 10 10 10	1
100 100	10 10 10 10 10	1
100 100	10 10 10 10 10	1

100

	H	T	O	
	2	5	1	
×			3	
	<u>7</u>	<u>5</u>	<u>3</u>	
	1			

$$5,291 \div 4 = 1,322 \text{ r}3$$

Thousands	Hundreds	Tens	Ones
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1000 1000 </div> <div style="border: 1px solid red; padding: 2px;"> 1000 1000 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 100 100 </div> <div style="border: 1px solid red; padding: 2px;"> 100 100 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 10 10 </div> <div style="border: 1px solid red; padding: 2px;"> 10 10 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1 </div> </div>
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1000 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 100 100 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 10 10 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1 1 </div> </div>
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1000 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 100 100 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 10 </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1 1 </div> </div>
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 100 100 </div> </div>		<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1 1 </div> </div>
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 100 100 </div> </div>		<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1 1 </div> </div>
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 100 100 </div> </div>		<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid red; padding: 2px;"> 1 1 </div> </div>

		1	3	2	2	r3
4	5	2	9	1		