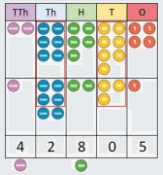
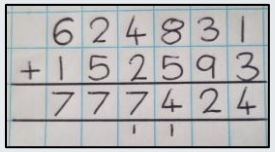
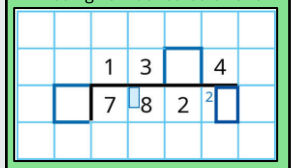
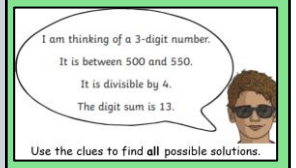
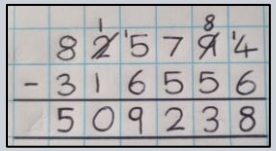
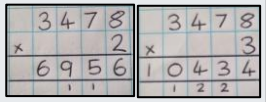
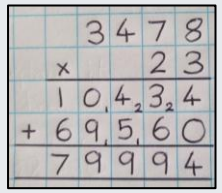
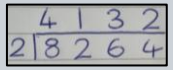
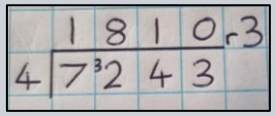
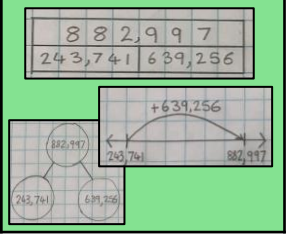
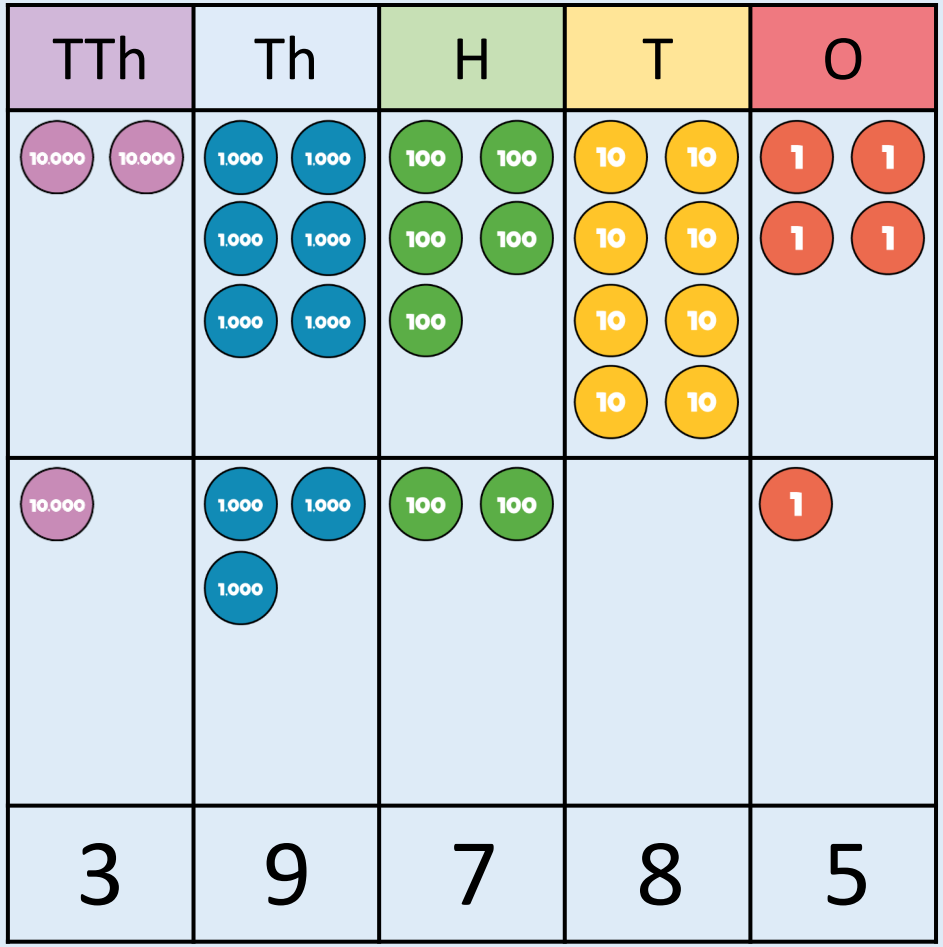
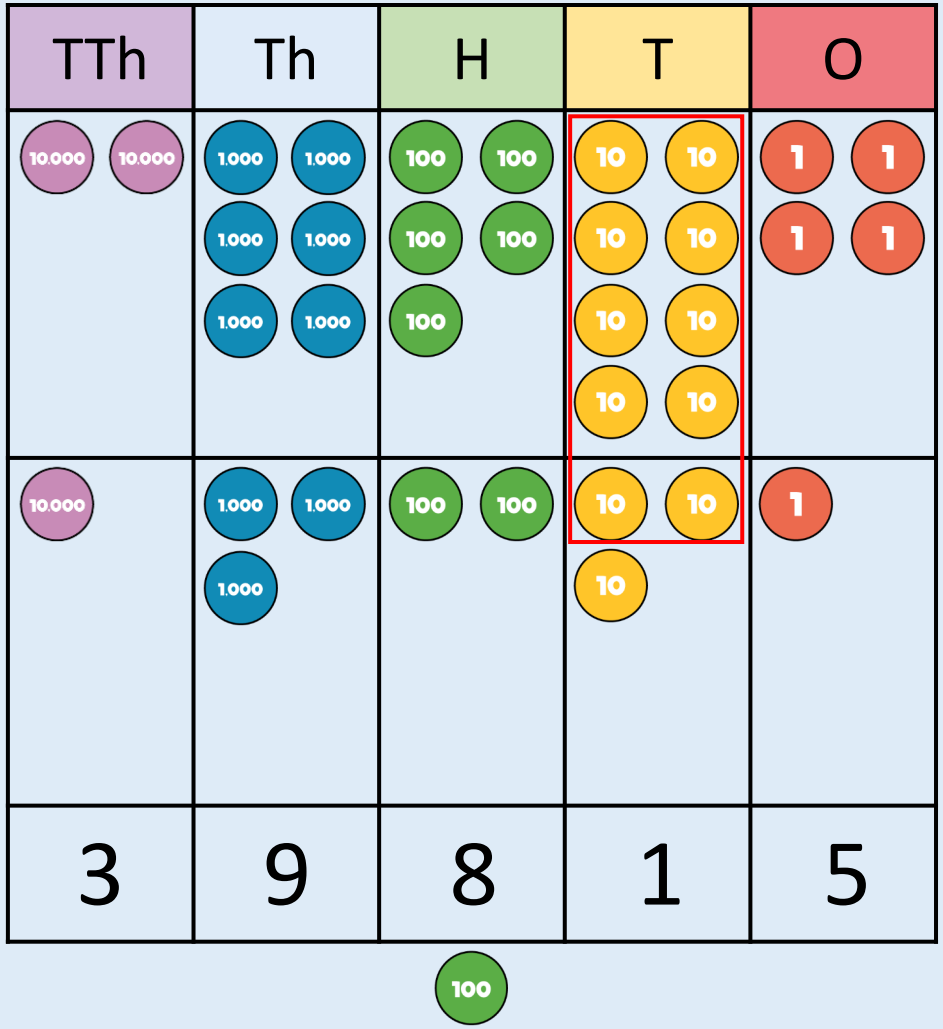
Year 5 Arithmetic Expectations

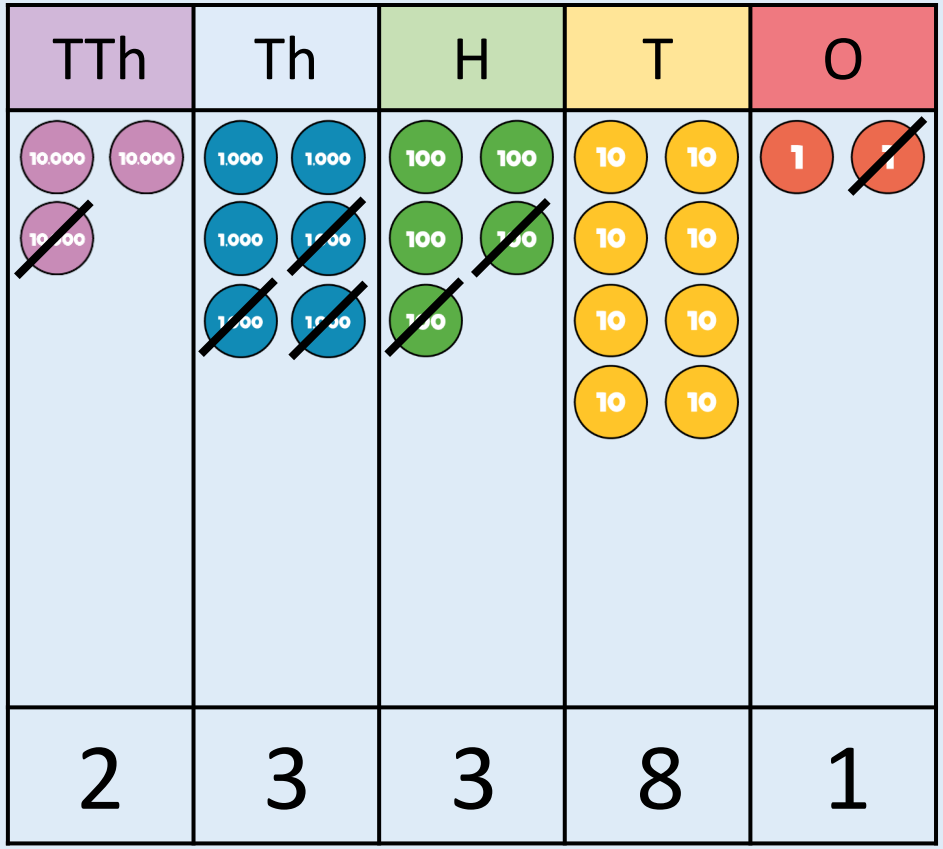
	How to support	Year 5 expectation	How to extend
Addition	The use of counters in columns helps the children understand the steps of addition  "We exchange 10 tens for 1 hundred"	Any 6-digit number add any 6-digit number  Answer is called the **sum**	Missing number calculations  Multi-step word problems Two numbers have a difference of 1,200 and a total of 6,484 What are the two numbers? 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? Parameter questions  Always, sometimes, never true Is the statement always true, sometimes true or never true? 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 Explain your answer. Systematic thinking questions Write the missing digits to make the calculations correct. _3_ + _3 = 300 _3_ - _3 = 300 How many possible solutions are there for each of the calculations?
Subtraction	1. Reduce the number of digits 2. Use of counters and columns 	Any 6-digit number subtract any 6-digit number  Answer is called the **difference**	
multiplication	Multiply numbers by a 1-digit number.  These 2 calculations would help a child understand the 2-digit multiplication to the right.	Any 4-digit number multiplied by any 2-digit number  Answer is called the **Product**	
division	1. Choose numbers with no exchanges  2. Use dots and groups to help the children divide 	Any 4-digit number divided by any 1-digit number, with remainders  Answer is called the **quotient**	Represent answers in 3 different visual formats 



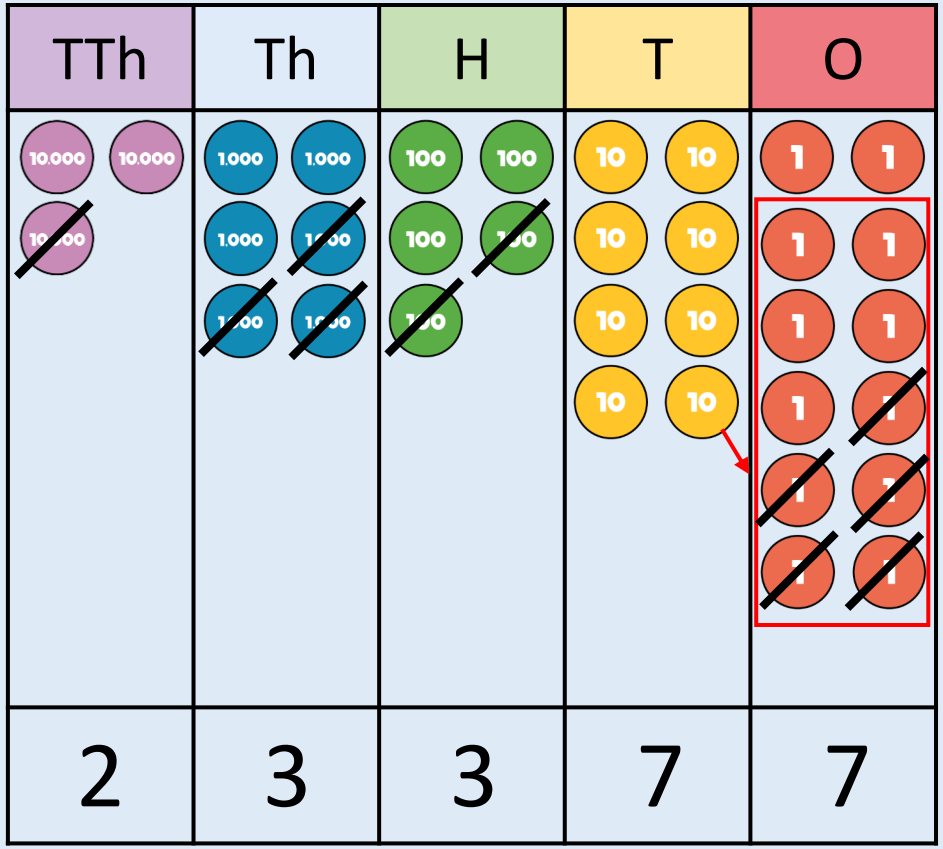
		2	6	5	8	4	
	+	1	3	2	0	1	
		3	9	7	8	5	



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



		3	6	5	8	2	
	–	1	3	2	0	1	
		2	3	3	8	1	



					7		
		3	6	5	~~8~~ $^{1}2$		
	–	1	3	2	0	5	
		2	3	3	7	7	

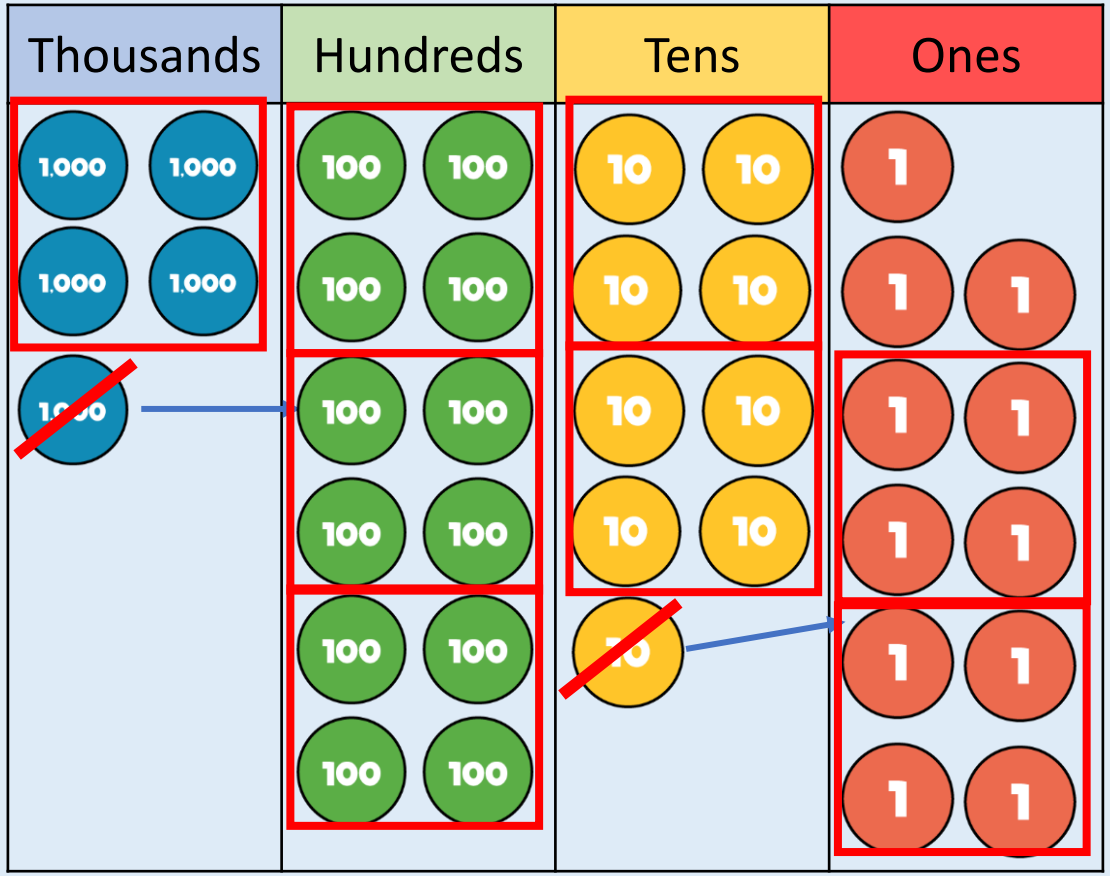
$$251 \times 3 = 753$$

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	
	7	5	3	
	1			

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



	1	3	2	2	r3
4	5	$^{1}2$	9	$^{1}1$	