

I can add two numbers (up to 3 digits) using partitioning.

e.g. $385 + 176 = ?$

Step 1: Partition into H, T, U then add.

H	T	U	+	H	T	U	=	H	T	U
	5		+		6		=		1	1
	80		+		70		=	1	50	
	300		+		100		=	4	00	

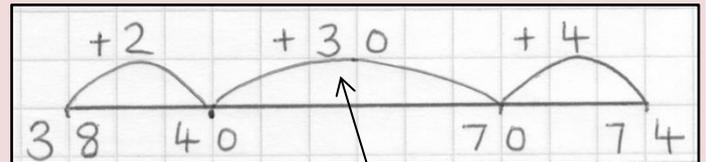
Step 2: Recombine the totals.

$400 + 150 + 11 = 561$

I can subtract numbers (up to 3 digits) in three steps using a number-line.

e.g. $74 - 38 = ?$

Step 1:



record each interval
smallest number at the left

Step 2: Recombine the totals.

$30 + 4 + 2 = 36$



Driffield Junior School
Year 3 Calculation Policy

Caring, learning, sharing
Success for all

I can multiply a 2 digit number with a single digit number by partitioning the 2 digit number.

e.g. $34 \times 4 = ?$

Step 1: Partition into H, T, U and multiply

T	U	x	U	=	H	T	U
30	x	4	=	1	20		
4	x	4	=		1	6	

use known number facts
e.g. $3 \times 4 = 12$ so
 $30 \times 4 = 120$

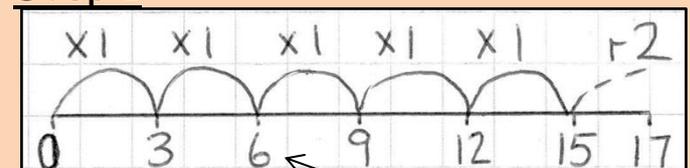
Step 2: Recombine the totals.

$120 + 16 = 136$

I can divide a 2 digit number by a single digit number using a number-line (can be reinforced pictorially using 'lots of').

e.g. $17 \div 3 = ?$

Step 1:



record each interval
begin at 0, count in multiples / 'lots of'

Step 2: Answer

I can add two numbers (up to 4 digits) using expanded column addition.

e.g. $358 + 73 = ?$

Step 1:

Partition and calculate

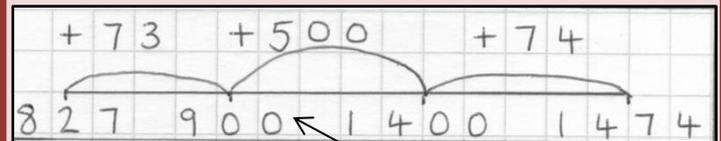
	HTU	
	358	
+	73	
	11	(8 + 3)
	120	(50 + 70)
	300	(300 + 0)
	<u>431</u>	

Step 2: Total

I can subtract numbers (up to 4 digits) using a number-line and column addition.

e.g. $1474 - 827 = ?$

Step 1:



record each interval

smallest number at the left

Step 2: Total

	HTU	
	500	
	74	
	73	
	<u>647</u>	



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Year 4 Calculation Policy

Caring, learning, sharing
Success for all

I can multiply a three digit number with a single digit number using expanded short multiplication by partitioning the three digit number (use column method for HTU x U by summer term).

e.g. $148 \times 6 = ?$

Step 1: Partition and lay out

HTU	HTU	HTU	HTU
148	=	100 +	40 + 8

Step 2: Calculate

	HTU	
	148	
X	6	
	48	(8 x 6)
	240	(40 x 6)
	600	(100 x 6)
	<u>888</u>	

Step 3: Total

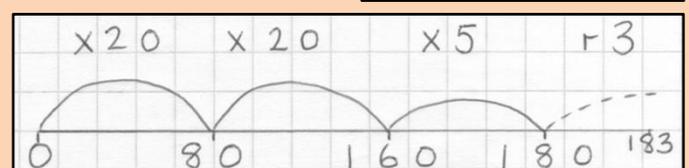
I can divide 2 and 3 digit numbers by a single digit number using known division facts.

e.g. $183 \div 4 = ?$

Step 1: Write down known facts

TU x TU = TU
1 x 4 = 4
10 x 4 = 40
2 x 4 = 8
5 x 4 = 20
20 x 4 = 80

Step 2: Calculate



Step 3: Answer

$45 \text{ r } 3$

I can add two numbers
(with 4 or more digits) using
column addition.

e.g. $5684 + 4913 = ?$

	Th	H	T	U
	5	6	8	4
+	4	9	1	3
<hr/>				
	1	0	5	9
				7

carried numbers should be
written below in a smaller size

I can subtract two numbers
(with 4 or more digits) using
column subtraction.

e.g. $82491 - 1682 = ?$

when borrowing, the number should be
crossed out with a diagonal line; the new
number should be smaller and written above
and to the left

	Th	Th	H	T	U
	8	2	4	9	1
-		1	6	8	2
<hr/>					
	8	0	8	0	9



Driffield Junior School Year 5 Calculation Policy

Caring, learning, sharing
Success for all

I can multiply a four digit number
with a two digit number using
expanded long multiplication.

Step 1:

Lay out

	Th	H	T	U
		8	5	4
x			1	6
<hr/>				
	5	1	2	4
		8	5	4
				0
<hr/>				
	1	3	6	6
				4

Step 2:

Calculate

Step 3:

Total

I can divide numbers
(up to 4 digits) by a 1 digit
number using short division and
give an appropriate remainder
(e.g. decimal/fraction/remainder)

Step 1: Lay out and calculate

	0	2	7	0	÷	3
<hr/>						
4)	1	0	8	3	

Step 2:

carry the remainder

find an
appropriate
remainder

...	0	.	7	5
...	3	.	0	2
...	0	.	3	
			4	

I can add a range of numbers together using column addition.

e.g. $148.62 + 99.9 = ?$

	H	T	U.	t	h
	1	4	8.	6	2
+		9	9.	8	
<hr/>					
	2	4	8.	4	2

line up the numbers according to place value

carried numbers should be written below in a smaller size

I can subtract a number from another number using the most appropriate method

(a simpler method such as a number line may be more appropriate at times).

e.g. $824.91 - 168.2 = ?$

	H	T	U.	t	h
	8	2	4.	9	1
-	1	6	8.	2	0
<hr/>					
	6	5	6.	7	1

when borrowing, the number should be crossed out and replaced with a smaller number



Driffield Junior School

Year 6 Calculation Policy

Caring, learning, sharing
Success for all

I can multiply numbers using the most appropriate method.

e.g. $12 \times \text{£}4.20 = ?$

	T	U.	t	h
		4.	2	0
x	1	2		
<hr/>				
		8.	4	0
	4	2.	0	0
<hr/>				
	5	0.	4	0

put the number with the most amount of digits to the top

I can divide numbers using long division.

e.g. $81344 \div 32 = ?$

32	①
+ 32	
64	②
+ 32	
96	③
+ 32	
128	④
32	
160	⑤

	0	2	5	4	2	
32)	8	1	3	4	4
		6	4			
		1	7	3		
		1	6	0		
		0	1	3	4	
			1	2	8	
				6	4	
				6	4	
					0	

Write out multiplication facts using column addition