Week 3

Multiplication method help

Day 2- Grid Method

Grid method

$234 \times 5 =$

Step 1: Partition

200   30   4

Step 2: Place the numbers into the grid

x	200	30	4
5			

Grid method

x	200	30	4
5	1000	150	20

Step 3: Multiply

We know that 2 x 5 is 10 so we put 2 zeros onto the end of 10 because our number is in the hundreds column.
200 x 5 = 1000

We know that 3 x 5 is 15 so all we need to do is put 1 zero onto the end of 15 because our number is in the tens column.
30 x 5 = 150

4 x 5 = 20

Grid method

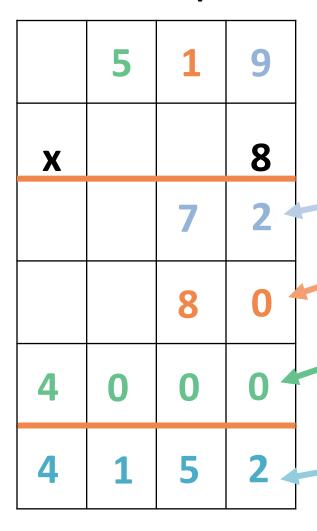Step 4: Add the numbers together

1000

  150

+ 20

1170

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234 x 5 = 1170

Day 3 and 4- Expanded Method

Expanded Multiplication

	5	1	9
x			8
		7	2
		8	0
4	0	0	0
4	1	5	2

519 × 9 = 4152
Lay out your calculation in a grid.
This calculation has a number in the hundreds column, so we need an extra row.

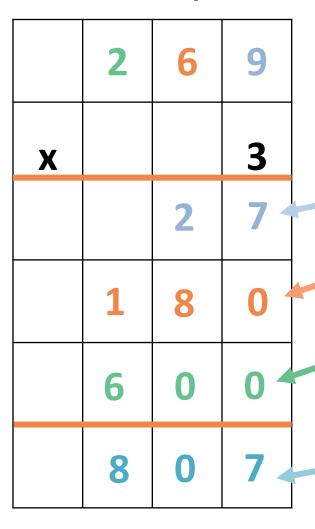Work out 9 × 8 and write the answer here.

Work out 10 × 8 and write the answer here. (1 x 8 = 8 so 10 x 8 = 80)

Work out 500 × 8 and write the answer here. (5 x 8 = 40 so 500 x 8 = 4000)

Add them together and write your answer here. Don't forget to regroup if you need and write this under the next column, adding it onto the total.

Expanded Multiplication

	2	6	9
x			3
		2	7
	1	8	0
	6	0	0
	8	0	7

269 × 3 = 807
Lay out your calculation in a grid.
This calculation has a number in the hundreds column, so we need an extra row.

Work out 9 × 3 and write the answer here.

Work out 60 × 3 and write the answer here. (6 x 3 = 18 so 60 x 3 = 180)

Work out 200 × 3 and write the answer here. (2 x 3 = 6 so 200 x 3 = 600)

Add them together and write your answer here. Don't forget to regroup if you need and write this under the next column, adding it onto the total.