Addition

2,357 + 8,079 =

Th	H	T	O
2,	3	5	7
+ 8,	0 $_1$	7 $_1$	9
1 0,	4	3	6

Remember to line up the addition question correctly using place value.

If a column you are adding together is 10 or more, remember to carry a number across.

Subtraction

6,521 – 3,432 =

Th	H	T	O
6,	⁴5̶	¹¹2̶	¹1
– 3,	4	3	2
3,	0	8	9

Remember to take one from the next column along if you cannot take away. E.g. you can't do   1 – 2 from the ones column so you take a 1 from the tens column.

If it is a 0, you go over to the next column until you can take 1 away from a number. Then work your way back replacing the 0s with a 9s. Practice one of these if you struggle.

Th	H	T	O
⁵6,	⁹0̶	⁹0̶	¹0
– 3,	4	3	2
2,	5	6	8

5000 – 2431 =   4000 – 1586 =   3000 – 2345 =

Short multiplication –   342 x 6 =

Th	H	T	O
	3	4	2
✗			
	₂	₁	6
2,	0	5	2

Work your way across from the ones column by multiplying the 6 by each number.

Be careful as you may need to carry numbers.

Long multiplication - 42 x 36 =

Th	H	T	O
		4	2
✗			
		3	6
	₂	3	₁6
	2	5	2
+ 1,	2	₁6	0
1,	5	1	2

Use this method if you are multiplying a two digit number by a two or three digit number.

Remember your place holder.

Always remember to add the numbers together as this is sometimes forgotten.

If you need any further support with multiplication >>> Work through the powerpoint on multiplication from week 3 on the website as this breaks it down more ☺

Short division -   516 divided by 3 =

```
      1  7  2
   ┌──────────
 3 │ 5  ¹2  6
```

You need to work out how many threes go into each number here.

If there are any remainders, carry them onto the next number if there is one.

Long division -   465 divided by 23 =

```
            2  0  r 5
       ┌──────────
  2 3  │ 4  6  5
     - │ 2  3  0   (× 10)
       ──────────
         2  3  5
     -   2  3  0   (× 10)
       ──────────
         0  5
```

Magic box
10 x 23 = 230
5 x 23 = 115
2 x 23 = 46
1 x 23 = 23

Use this method to solve two digit by three or four digit division questions.

First step here is making your magic box.

Then you chunk away parts until you cannot subtract any more.

If there is a number left at the bottom which you cannot subtract, this is your remainder.

If you need any further assistance with division, rewatch the video lesson from Mr Fretter in week 4s home learning plan document. This might make it clearer ☺