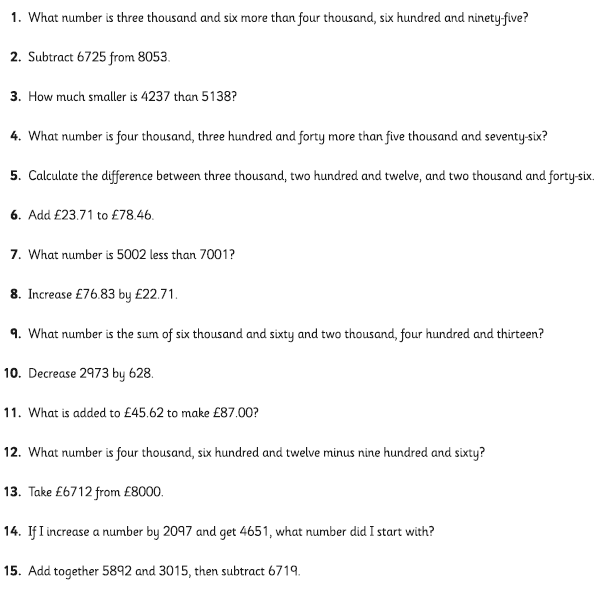
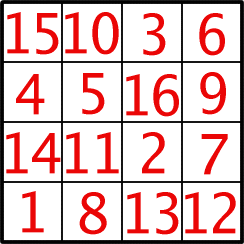
Wednesday 18th November 2020  
  
Maths

Below are some more word problems. Please use column method to complete the calculations, or see below it for a more challenging maths activity.



**Challenge**

This is a 4 x 4 Magic Square made from the numbers 1 to 16.



In a Magic Square all the rows, columns and diagonals add to the same number. This number is called the 'Magic Constant'.

Here are some questions about this Magic Square.

1/What is the Magic Constant of this Magic Square?

***This particular square is especially 'magic' as some 2 x 2 squares within it also add to that number.***

2/How many of these squares can you find?  
  
3/What happens to the Magic Constant if you add 2 to each number in the square?  
  
4/What happens if you double each number?  
  
5/Can you make a square in which the Magic Constant is 17?

How did you do it?

6/Can you make a square in which the Magic Constant is 38?

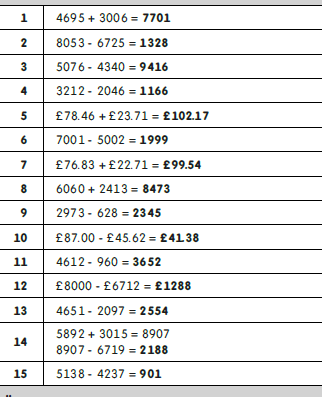
How did you do it?

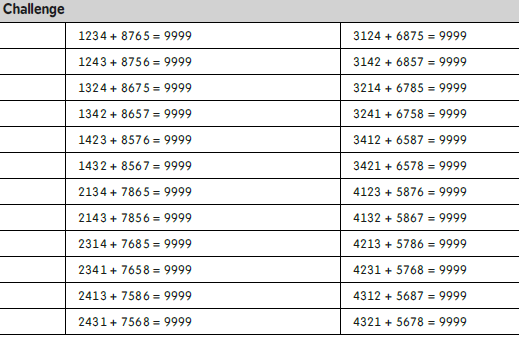
7/What other numbers under 100 can you make into the Magic Constant by changing all the numbers in the square in the same way?

8/Can some be made in more than one way?

9/Are there some numbers you really cannot make?

**Answers to yesterday’s questions**





**Art**

In art we are looking at Peter Thorpe and his space art. Can you research his work at home and draw a picture influenced by some of his ideas? Look closely at his use of colour and shading.