Mad maths 29 contribution

You all should know by now how much fun we always have looking at my special number patterns because it's such a great way to learn about numbers. Well here's another selection of patterns for us to investigate and play around with. Once you have figured out the different patterns, why not make '<u>sum'</u> up of your own!

 $1 \ge 9 = 9$

11 x 99 = 1089

111 x 999 = 110889

1111 x 9999 = 11108889

Can you write down the next calculations in this pattern. You should be able to follow the pattern and get the answers without the need for a calculator.

11111 x 99999 =
111111 x 999999 =
111111 x 9999999 =
Let's try this one :
2 x 9 = 18
22 x 99 = 2178
222 x 999 = 221778
Now try to follow this pattern and get the answers
2222 x 9999 =

22222 x 99999 =

This one is a goodie!

 $12 \ge 12 = 144$

now let's reverse 12 to get

21 x 21 = 441 interesting eh!

So let's try with

13 x 13 = 169

reverse to get

31 x 31 = 961

So you try the following :

14 x 14 =

41 x 41 =

15 x 15 =

51 x 51

This next one I'm not too sure about what's going to happen so I'll need you to write to me with your explanations so let's get investigating

4 x 4 = 34 x 34 = 334 x 334 =

3334 x 3334 =

This is a new number trick that is storming school playgrounds around the country – make sure you know it because it's bound to hit a playground near you! Let's imagine that we want to find out how much the following statement is true as a percentage. We can do it this way then you can make up your own statements about things that you like !

Write a three word sentence eg Rosie likes maths (we want to find out what percentage of this statement is true). Next count the number of each of the letters that appear in the middle word (likes) that are the same in the other 2 words and write it as below:

Rosie Likes Maths

Let's see how many L's, I's, k's, e's and s's appear in Rosie and Maths

Rosie Likes Maths

12122

(there is 1 letter L, 2 letter I, 1 letter k, 2 letter e and 2 letter s)

Now add the digits in 12122 that are next to each other until you get to your first 2 digit number as below;

12122
3334
667
1213
334
67

This means that Rosie likes Maths 67%

Have fun!