24.4.2020

Maths

3\*\*\*

Today you are going to complete a Number Investigation.

Can you spot any patterns or come up with any rules when dividing a 3 digit number by 9.

Pick 3 digit numbers (you could roll a dice 3 times or just come up with your own to create these). Divide these numbers by 9. Organise your calculations to help you identify patterns.

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Calculation	Digit	Whole	Remainder	R 2	RЗ	R 4	R 5	R 6	R7	R 8
	Sum	Number	of I							
		Answer	-							
$269 \div 9 = 29r 8$	17									29x8
324 ÷ 9 =	9	324								
$466 \div 9 = 5 lr7$	16								51r7	

It may be useful to set a table up in your book like this:

Look carefully at the answers. When is the answer a whole number? When is there a remainder of 1,2,3 etc? Can you spot any patterns? Can you come up with any rules?

For more information you can access this at: https://nrich.maths.org/10490/note