Maths

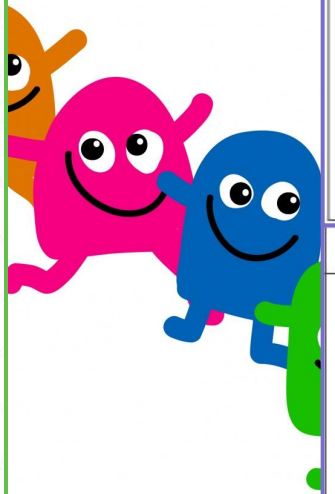
Independent task:
To develop strategies to plan and solve problems

Mr Critchlow

To Start

Can you complete the number grid by putting the numbers into the correct places?

	1												
	7												
	4												
	9												
	5												
					3	2	5	4	0				



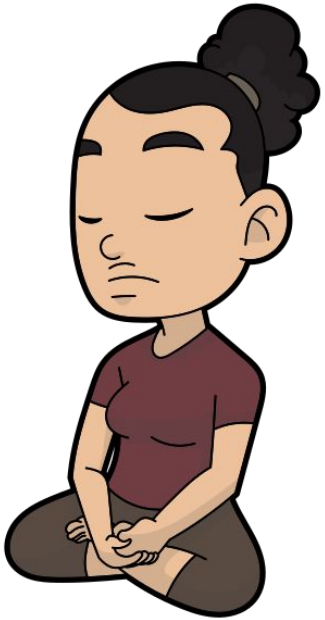
3 DIGITS		4 DIGITS	
149	536	1943	7561
261	675	2845	8237
348	796	3371	8263
472	813	3491	9057
483		5247	9842
		5962	

5 DIGITS		6 DIGITS	7 DIGITS
14259	52076	405183	2394608
~~17495~~	57346	843925	7265713
28136	63307		
~~32540~~	65074		
37281	72751		
42310	82714		

Task 1

Can you work out the rule for each of these sequences? Tick the increasing sequences.

Sequence	Rule
25, 50, 75, 100, 125, 150, 175, 200	
-5, -10, -15, -20, -25, -30	
1600, 800, 400, 200, 100, 50, 25	
46, 62, 78, 94, 110, 126, 142	
1001, 931, 861, 791, 721, 651	
5000, 1000, 2000, 40, 8	



Task 2

Can you write the first 6 terms in each sequence? – follow the rule and pay attention to the start number

1. The rule is add 11, the start-point is 17

2. The rule is add 25, the start-point is 37

3. The rule is subtract 23, the start point is 29

4. The rule is subtract 9, the start point is 15

5. The rule is add 104, the start point is -94

Task 3

Can you write the first missing terms in each sequence?

Sequence	Rule
150, 190, _____ , 270, 310, _____	
29, 34, 39, 44, _____, _____	
-9, -18, -27, _____ , _____ , -54	
6.4, 6.9, _____, _____, 8.4, 8.9	
9.9, 8.7, _____, 6.3, 5.1, _____	
-44, -25, _____, 13, _____, 51	

Challenge 1

Have a go at answering these questions

The numbers in this sequence increase by 75 each time.

Write in the two missing numbers.

☐ 725 800 875 950 ☐

The numbers in this sequence increase by 14 each time.

Write the missing numbers.

☐ 82 96 ☐ 124 138 ☐

Challenge 2

Have a go at answering these questions

The numbers in this sequence increase by 30 each time.

20 50 80 110 ...

The sequence continues in the same way.

Which number in the sequence will be **closest to 300**?