Maths Activity 2 – 9 times tables

Colour all the multiples of 9

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

What pattern do you notice?

Complete the number tracks.

0	9	18				54		

108	99			72			45	36

These numbers are all multiples of 9

45	**54**	**18**	**108**

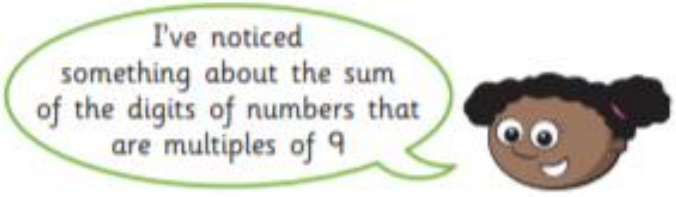
a) Show that the sum of the digits of each number is the same.

b) These numbers are also multiples of 9

198	**657**	**891**	**999**

What is the sum of the digits of each number?

c)



What do you think Whitney has noticed?

d) 7,59_ is a multiple of 9

What is the missing digit? ☐

Jack is making arrays.

a) Use the arrays to complete the multiplications.

$1 \times 10 =$ ☐ $1 \times 9 =$ ☐

$2 \times 10 =$ ☐ $2 \times 9 =$ ☐

$3 \times 10 =$ ☐ $3 \times 9 =$ ☐

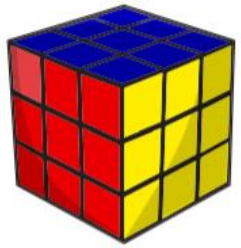
$4 \times 10 =$ ☐ $4 \times 9 =$ ☐

b) Write steps for a partner to explain how you can use the 10 times-table to multiply by 9

c) Use your steps to work out these multiplications.

$19 \times 9 =$ ☐ $72 \times 9 =$ ☐

There are 9 coloured squares on each face of a puzzle cube.



How many coloured squares are there on the whole puzzle cube?

☐

Here is a number puzzle.

□ × □ × △ = 81

Find three different values of the square and triangle.

△ = ☐ △ = ☐ △ = ☐

□ = ☐ □ = ☐ □ = ☐