

# Investigating patterns within multiples

multiples of 1	1	2		4	5	6	7		9								
sum of digits																	∴ it is a ___ pattern
multiples of 2	2	4	6		10	12			18	20							
sum of digits																	∴ it is a ___ pattern
multiples of 3		6	9	12		18		24	27	30							
sum of digits																	∴ it is a ___ pattern
multiples of 4	4	8		16		24	28	32		40							
sum of digits																	∴ it is a ___ pattern
multiples of 5	5		15	20	25	30		40		50							
sum of digits																	∴ it is a ___ pattern
multiples of 6		12	18		30	36	42	48	54								
sum of digits																	∴ it is a ___ pattern
multiples of 7		14	21	28		42	49			70							
sum of digits																	∴ it is a ___ pattern
multiples of 8	8	16			40		56	64	72	80							
sum of digits																	∴ it is a ___ pattern
multiples of 9	9		27	36	45		63		81	90							
sum of digits																	∴ it is a ___ pattern
multiples of 10	10		30	40	50		70	80	90								
sum of digits																	∴ it is a ___ pattern
multiples of 11																	
sum of digits																	∴ it is a ___ pattern
multiples of 12																	
sum of digits																	∴ it is a ___ pattern

# Investigating patterns within multiples

multiples of 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
sum of digits	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	∴ it is a <u>9</u> pattern
multiples of 2	2	4	6	8	10	12	14	16	18	20	22	24	25	28	30	
sum of digits	2	4	6	8	1	3	5	7	9	2	4	6	8	1	3	∴ it is a <u>9</u> pattern
multiples of 3	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	
sum of digits	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	∴ it is a <u>3</u> pattern
multiples of 4	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	
sum of digits	4	8	3	7	2	6	1	5	9	4	8	3	7	2	6	∴ it is a <u>9</u> pattern
multiples of 5	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
sum of digits	5	1	6	2	7	3	8	4	9	5	1	6	2	7	3	∴ it is a <u>9</u> pattern
multiples of 6	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	
sum of digits	6	3	9	6	3	9	6	3	9	6	3	9	6	3	9	∴ it is a <u>3</u> pattern
multiples of 7	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	
sum of digits	7	5	3	1	8	6	4	2	9	7	5	3	1	8	6	∴ it is a <u>9</u> pattern
multiples of 8	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	
sum of digits	8	7	6	5	4	3	2	1	9	8	7	6	5	4	3	∴ it is a <u>9</u> pattern
multiples of 9	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	
sum of digits	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	∴ it is a <u>1</u> pattern
multiples of 10	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
sum of digits	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	∴ it is a <u>9</u> pattern
multiples of 11	11	22	33	44	55	66	77	88	99	110	121	132	143	154	165	
sum of digits	2	4	6	8	1	3	5	7	9	2	4	6	8	1	3	∴ it is a <u>9</u> pattern
multiples of 12	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	
sum of digits	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	∴ it is a <u>3</u> pattern
multiples of 13	13	26	39	52	65	78	91	104	117	130	143	156	169	182	195	
sum of digits	4	8	3	7	2	6	1	5	9	4	8	3	7	2	6	∴ it is a <u>9</u> pattern
multiples of 14	14	28	42	56	70	84	98	112	126	140	154	168	182	196	210	
sum of digits	5	1	6	2	7	3	8	4	9	5	1	6	2	7	3	∴ it is a <u>9</u> pattern
multiples of 15	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	
sum of digits	6	3	9	3	3	9	6	3	9	6	3	9	6	3	9	∴ it is a <u>3</u> pattern