Calculator Challenge

Enter this calculator sentence into a calculator.

`·` `2` `+` `+` `=`

> That is called a constant function.

Continue to press `=` and record the answers.
Clear the calculator and enter the following:

`·` `5` `+` `+` `=`

Continue to press `=` and record the answers.
Discuss the number patterns that you recorded.

1 Use words to describe each number pattern.

6 12 18 24 _____

397 407 417 427 _____
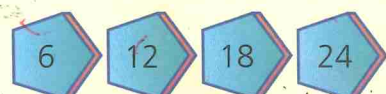
2 Complete each number pattern.

a 3 6 9 ○ ○ ○ ○

b 75 70 65 ○ ○ ○ ○

c 4 8 12 ○ ○ ○ ○

d 120 130 140 ○ ○ ○ ○
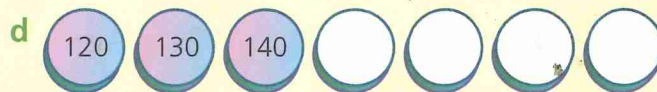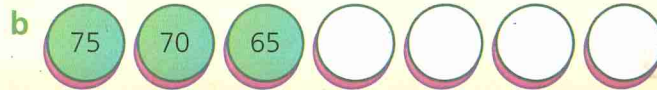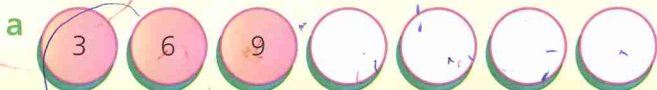
3 Write the tenth term in each number pattern.

a 4, 8, 12, 16, _____

b 36, 46, 56, 66, _____

c 12, 16, 20, 24, _____

d 9, 18, 27, 36, _____

e $3\frac{1}{2}$, 4, $4\frac{1}{2}$, 5, _____

f $2\frac{1}{4}$, $2\frac{2}{4}$, $2\frac{3}{4}$, 3, _____

> The patterns overlap.

Activity

- Count by threes and circle each number counted.
- Count by sixes and put a cross on each number.
- Count by nines and colour each number.
- Discuss the patterns formed by circles, crosses and colour.

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

PAS2.1 Generates, describes and records number patterns using a variety of strategies and completes simple number sentences by calculating missing values

NS2.1, NS2.4, WMS2.2–4

7