

Worksheet 8

Writing Formulae

1 Let T stand for the n th number in each pattern.

(a)

n	1	2	3	4	5
T	3	6	9	12	15

$$T = 3n$$

(b)

n	1	2	3	4	5
T	5	9	13	17	21

$$T = 4n + 1$$

(c)

n	1	2	3	4	5
T	5	7	9	11	13

$$T = 2n + 3$$

(d)

n	1	2	3	4	5
T	2	7	12	17	22

$$T = 5n - 3$$

- 2 The formula for the n th number in a sequence is:

$$2n + 4$$

- (a) Find the 4th number.

12

- (b) Find the 15th number.

34

- (c) Find the 100th number.

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- (d) Find the sum of the first 10 numbers in the sequence.

6, 8, 10, 12, 14, 16, 18, 20, 22, 24

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