

L/Objective : Sequences - the n^{th} term of a linear sequence

1. Find the n^{th} term AND the 50th term for the following sequences

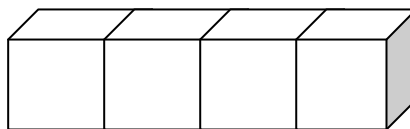
5, 11, 17, 23, 29, n^{th} term = 50th term =

12, 7, 2, - 3, - 8, n^{th} term = 50th term =

2. The n^{th} term of a sequence is $5 - 3n$. Generate the first 5 terms of this sequence.

_____, _____, _____, _____, _____,

3. A rod of 4 cubes has a surface area of 18 square centimetres (4 squares on each cube plus 2 at the ends).



(a) What is the surface area for a rod with 10 cubes?

(b) What is the surface area for a rod with n cubes?

4. The n^{th} term for a NON LINEAR sequence (called a quadratic sequence) is $n^2 + n$. Generate the first 5 terms in the table below

Position	1	2	3	4	5
Term					

5. A **power sequence** uses the position of the sequence as a **power**. Use the n^{th} term = 2^n to generate the first 5 terms of this sequence.

Position	1	2	3	4	5
Term					