Representing Linear Patterns

There are SIX ways that we can represent linear patterns: You have studied them since Kindergarten. They are: a Number Sequence, in words, Tabled Value (T-chart), on a graph, as an algebraic expression or equation and graphically.

From any one of the starting points, you should be able to represent the same pattern in the other methods of representing the same pattern.

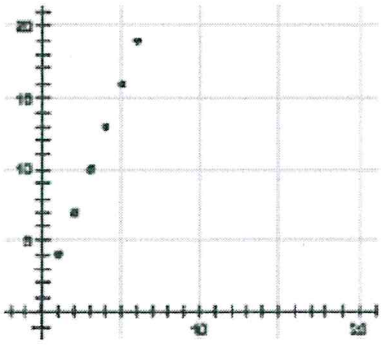
Number Sequence: 4, 7, 10, 13, 16, 19,…

Words: A pattern starting at four and adding three each time.

Tabled Value:

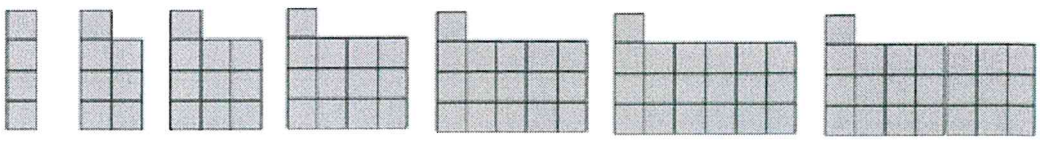
Term Number (x)	Term Value (y)
1	4
2	7
3	10
4	13
5	16
6	19

Graph:



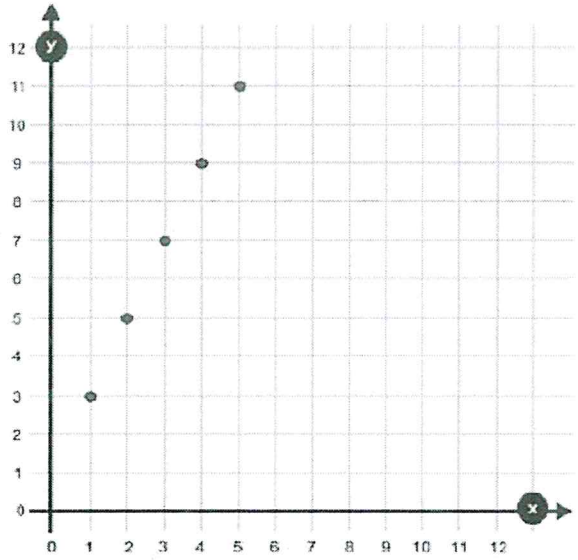
Algebraic Equation: Vn = 3n + 1

Graphically:



Think back, which in what order did you learn these different pattern representations?

Given the following Graph, can you represent the same pattern in the other five ways?



Represented as a **T-Chart**

Term n	Term Value V_n
n	Vn =

Represented as an **Algebraic Equation**

Represented in a **number pattern sequence**: _____, _____, _____, _____, _____, …

Represented in **words**: _____

Represented **Graphically**: - just to help a bit, I have the first three terms – please draw last two.