

GCSE Foundation Sequences - www.m4ths.com

Linear/Arithmetic (Increase or decrease by a fixed amount)

(1) Find (i) The next two terms (ii) The n th term and (iii) The 45th term for each of the sequences below:

(a) 7, 10, 13, 16, 19..... (b) 1, 3, 5, 7, 9..... (c) 10, 6, 2, -2, -6..... (d) -5, -7, -9, -11.....

'Fibonacci Like' Sequences (add the two previous terms)

(1) Find the next two terms in each of the sequence below:

(a) 6, 7, 13, 20, __, __ (b) 3, 4, 7, __, __ (c) 10, 12, 22, __, __ (d) 0, 2, __, __

(e) a, b, a + b, ____, ____, (f) 1, __, __, 11, 17

Standard Number Patterns (Square numbers, cube numbers, triangle numbers etc)

(1) Find the next 3 terms in each number pattern:

(a) 1, 4, 9, 16, __, __, __ (b) 1, 8, 27, __, __, __

Quadratic Sequences (The difference between each term increases)

(1) Find the next two terms in each quadratic sequence below:

(a) 6, 12, 20, 30, __, __ (b) 6, 11, 18, 27, __, __ (c) 2, 9, 20, 35, __, __

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