Number Sequences - www.m4ths.com

(1) Find the next two terms in the sequence 2, 10, 50, 250….

(2) State what type of sequence 4,5,9,14,23…..is

(3) Find the first 5 terms in the sequence $4n - 2$

(4) Find the nth term of the arithmetic sequence 6, 8, 10, 12, 14….

(5) Find the next two terms in the Fibonacci type sequence 3, 10…..

(6) Find the missing terms in the geometric sequence 4, 12, ___, ___, 324

(7) Find the nth term of the arithmetic sequence 12, 8, 4, 0, -4…….

(8) Find the first 5 terms of the sequence $3n^2$

(9) Find the next two terms in the Fibonacci like sequence A, C, _____, _____

(10) Explain why 1, 4, 16, 64, 256 is geometric

(11) Find the missing terms in the Fibonacci sequence 7, _____, 18, _____, _____

(12) Explain why 1000, 100, 10, 0.01 is not geometric.

(13) Find the nth term of 1, 3, 5, 7, 9…….

(14) Find the first 5 terms of the sequence $10 - n$

(15) Find the missing terms in the Fibonacci like sequence ___, ___, 16, 25, ___

(16) Find the 5th term in the sequence $2n^3$

(17) Add TWO more term to the sequence 3,6…. To make it (i) Fibonacci (ii) Arithmetic (iii) Geometric (iv) None of these!

(18) Find the nth term for 10, 9, 8, 7, 6……

(19) Find the next two terms in the Fibonacci sequence $p + q$, $3p + 2q$…….

(20) Write out the first 5 triangular numbers.

(21) Explain the difference between arithmetic and geometric sequences

(22) Find the next two terms in the special sequence 5, 7, 11, 17, 25, 35…..

(23) Find the nth term of the sequence 2, 2.5, 3, 3.5, 4……

(24) Is this geometric? 2, -6, 18, -54, 162….? If so why?

(25) Find the first 5 terms in the sequence $(2n)^3$

(26) Find the missing terms in the Fibonacci sequence $5X - 6Y$, _____, $7X + 4Y$, _____

(27) Find the first 5 terms of '2 to the power of n'