

Sequences

Name:

Describe each of the key words below.

LITERACY

Sequence

Term

0th Term

Linear

RESEARCH

What is the Fibonacci sequence?

Who is it named after?

MEMORY

Remember! When we are looking for a sequence we are looking for a common difference between each term.

e.g. 2, 4, 6, 8, 10

The common difference here is 2

SKILL

1. Describe the common difference in each of these sequences and find the next two terms:

a) 3, 6, 9, 12, 15

b) 7, 11, 15, 19, 23

c) 19, 14, 9, 4, -1

2. Generate the first 5 terms for each of these sequences.

a) $n + 3$

b) $2n + 2$

c) $3n - 2$

d) $n^2 + 1$

3. Find the 0th term for each of these sequences:

a), 6, 9, 12, 15, 18

b), 2, 6, 10, 14, 18

c), -1, 2, 5, 8, 11

STRETCH

Find the nth term for each of these linear sequences:

a) 5, 7, 9, 11, 13

b) 2, 6, 10, 14, 18

c) 9, 7, 5, 3, 1, -1

d) 2.5, 2, 1.5, 1, 0.5

Due Date: