

seaplanes

sequence

sequence

infinite

patterns

$$a_n = n$$

Q1

example

example

example

sequences

- A **sequence** is an list of numbers in a certain order

$$\{a_1, a_2, a_3, \dots\}$$

a_1 is first term

a_2 is first term

a_3 is first term

etc.

- The sequence may be **infinite**
- The n -th term of the sequence is the n -th number on the list and given by $a_n = n$
- Some sequences have **patterns**, some do not

example

We roll a die repeatedly and generate a sequence of numbers which have no pattern.

example

The following two sequences have patterns:

$$\{1, 2, 3, 4, 5, 6, \dots\}$$

$$\{-1, 1, -1, 1, -1, \dots\}$$

sequences

sequences

a_1