

Generating Sequences

Nth term: $3n + 1$

Working out: $((3 \times 1) + 1)$, $((3 \times 2) + 1)$, $((3 \times 3) + 1)$, $((3 \times 4) + 1)$, $((3 \times 5) + 1)$

Sequence: 4, 7, 10, 13, 16



BRONZE

Generate the first 3 terms for the following sequences:

- a) $3n$ b) $5n$ c) $2n$ d) $7n$
- e) $2n + 2$ f) $3n + 2$ g) $4n + 4$ h) $5n + 1$
- i) $2n - 12$ j) $2n - 2$ k) $7n - 15$ l) $4n - 14$



SILVER

Find the 5th and 11th term for the following sequences:

- b) $3n$ b) $5n$ c) $2n$ d) $7n$
- e) $2n + 2$ f) $3n + 2$ g) $4n + 4$ h) $5n + 1$
- i) $2n - 12$ j) $2n - 2$ k) $7n - 15$ l) $4n - 14$



GOLD

Generate the first 5 terms for the following sequences:

- c) $-3n$ b) $-5n$ c) $-2n$ d) $-7n$
- e) $2n - 2$ f) $-3n + 2$ g) $4n - 4$ h) $-5n + 1$
- i) $n^2 + 2$ j) $2n^2$ k) $2n^2 + 2$ l) $2n^2 - 2n$



Challenge: Can you find the n th term for the sequence:

2, 6, 10, 14, 18



Generating Sequences

Nth term: $3n + 1$

Working out: $((3 \times 1) + 1)$, $((3 \times 2) + 1)$, $((3 \times 3) + 1)$, $((3 \times 4) + 1)$, $((3 \times 5) + 1)$

Sequence: 4, 7, 10, 13, 16



BRONZE

Generate the first 3 terms for the following sequences:

- d) $3n$ b) $5n$ c) $2n$ d) $7n$
- e) $2n + 2$ f) $3n + 2$ g) $4n + 4$ h) $5n + 1$
- i) $2n - 12$ j) $2n - 2$ k) $7n - 15$ l) $4n - 14$



SILVER

Find the 5th and 11th term for the following sequences:

- e) $3n$ b) $5n$ c) $2n$ d) $7n$
- e) $2n + 2$ f) $3n + 2$ g) $4n + 4$ h) $5n + 1$
- i) $2n - 12$ j) $2n - 2$ k) $7n - 15$ l) $4n - 14$



GOLD

Generate the first 5 terms for the following sequences:

- f) $-3n$ b) $-5n$ c) $-2n$ d) $-7n$
- e) $2n - 2$ f) $-3n + 2$ g) $4n - 4$ h) $-5n + 1$
- i) $n^2 + 2$ j) $2n^2$ k) $2n^2 + 2$ l) $2n^2 - 2n$



Challenge: Can you find the n th term for the sequence:

2, 6, 10, 14, 18

