

The nth Term of a Linear Sequence

1

Find the n th term of the sequence 5, 8, 11, 14, 17, ...

58111417

n=1n=2n=3n=4n=5

3691215

times table row underneath
goes up by 3, so start with $3n$

Answer _____

2

Find the n th term of the sequence 7, 9, 11, 13, 15, ...

79111315

n=1n=2n=3n=4n=5

times table row underneath
goes up by 2, so start with $2n$

Answer _____

3

Find the n th term of the sequence 6, 10, 14, 18, 22, ...

610141822

n=1n=2n=3n=4n=5

times table row underneath

Answer _____

4

Find the n th term of the sequence 1, 6, 11, 16, 21, ...

16111621

n=1n=2n=3n=4n=5

times table row underneath

Answer _____

5

Find the n th term of the sequence 9, 12, 15, 18, 21, ...

Answer _____

6

Find the n th term of the sequence 2, 9, 16, 23, 30, ...

Answer _____

7

The n th term of a sequence is $4n + 3$. Is 50 in the sequence? Show how you know.

Answer _____

8

The n th term of a sequence is $5n - 2$. Which term is equal to 73?

Answer _____

The nth Term of a Linear Sequence *further practice*

9

Find the n th term of the sequence 8, 15, 22, 29, 36, ...

Answer _____

10

The n th term of a sequence is $6n - 1$. Write down the first three terms and the 10th term.

First three _____

10th term _____

11

Here are the first three patterns made of sticks. Find the n th term for the number of sticks.

Pattern 1

Pattern 2

Pattern 3

Answer _____

12

Find the n th term of the sequence 30, 26, 22, 18, 14, ...

Answer _____

13

A climbing wall charges a joining fee and then the same amount each month. The total cost after 1, 2, 3 and 4 months is £37, £49, £61 and £73. Find the n th term, and the total cost after 12 months.

n th term _____

12 months _____

14

Which term of the sequence 9, 13, 17, 21, ... is equal to 101?

Answer _____

15

Asha has £30 in a jar. She puts in £5 at the end of every week. Ben has £6 in a jar. He puts in £8 at the end of every week. After how many weeks will they have the same amount?

Answer _____

16

Leo says the n th term of the sequence 4, 9, 14, 19, ... is $n + 5$. Is Leo right? Explain.

Answer _____