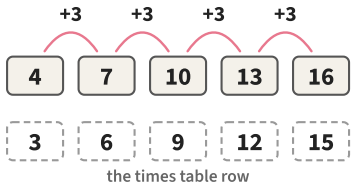
The nth Term of a Linear Sequence

1

Find the nth term of

4, 7, 10, 13, 16, …



Difference

Adjust

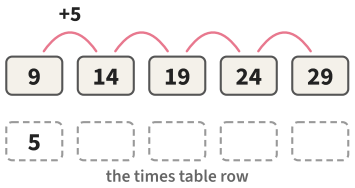
Check

nth term

2

Find the nth term of

9, 14, 19, 24, 29, …



Difference

Adjust

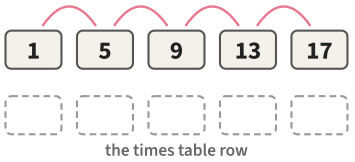
Check

nth term

3

Find the nth term of

1, 5, 9, 13, 17, …



Difference

Adjust

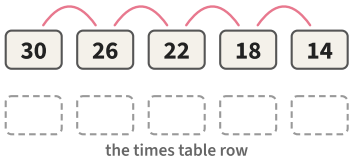
Check

nth term

4

Find the nth term of

30, 26, 22, 18, 14, …



nth term

5

Find the nth term of 8, 11, 14, 17, …

Then use it to find the 50th term.

50th term

6

Is 150 in the sequence

5, 12, 19, 26, … Show how you know.

Answer

7

Which term of the sequence

11, 20, 29, 38, … is equal to 200?

Answer

8

Mo says the nth term of

3, 10, 17, 24, … is $n + 7$.

Explain what Mo has done wrong.

Then find the right nth term.

nth term

The nth Term of a Linear Sequence *further practice*

9

Find the nth term of the sequence

12, 21, 30, 39, 48, …

nth term _____

10

Find the nth term of the sequence

7, 3, −1, −5, −9, …

nth term _____

11

Rosa saves the same amount every week. She has £45 at the end of week 1, £52 at the end of week 2 and £59 at the end of week 3.
Write an expression for the amount she has at the end of week n.
How much will she have at the end of week 20?

Week n, in £ _____

Week 20 _____

12

Find the 100th term of the sequence

250, 247, 244, 241, …

100th term _____

13

Which term of the sequence

5, 13, 21, 29, … is equal to 205?

Answer _____

14

The nth term of a sequence is $6n + 5$.
Ring the numbers that are in the sequence.

41	56	77
100	125	150

Answer _____

15

Find the first term of the sequence

8, 15, 22, 29, … that is greater than 200.

Answer _____

16

Sam says the nth term of the sequence

40, 35, 30, 25, … is $5n + 35$.

Is Sam right? Explain how you know.

Answer _____