

1. Here are the first four terms in a number sequence.

5 8 11 14

Is 47 a term of the sequence?

You must give a reason for your answer.

1.

2. Here are the first four terms of an arithmetic sequence.

5 11 17 23

Is 75 a term of the sequence?

Explain how you got your answer.

2.

3. Here are the first five terms of an arithmetic sequence.

5 13 21 29 37

Is 72 a term of the sequence?

You must give a reason for your answer.

3.

4. Here are the first five terms in a number sequence.

9 16 23 30 37

Jola thinks that the number 71 is in this sequence.

Is Jola correct?

You must show how you get your answer.

4.

Answers

1. yes and a method that could lead to the deduction e.g. add on a multiple of 3
2. no and a method that could lead to the deduction e.g. add on a multiple of 6 e.g. 71 and 77 are in sequence
3. no and a method that could lead to the deduction e.g. add on a multiple of 8 e.g. 69 and 77 are in sequence
4. no and a method that could lead to the deduction e.g. add on a multiple of 7 e.g. 65 and 72 are in sequence