

Name:

Exam Style Questions

Fibonacci



Corbettmaths

Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 287a



Answers and Video Solutions



1. The next term in the sequence below is found by adding the two previous terms.



10 15 25

Find the next two terms.

..... and
(2)

2. The next term in this Fibonacci sequence is found by adding together the two previous terms.



2 2 4 6

Work out the next two terms.

..... and
(2)

3. Here are the first five terms of a Fibonacci sequence.



3 4 7 11 18

Write down the next two terms of the sequence.

..... and
(2)

4. A Fibonacci sequence starts 2 -7



Work out the next two terms.

..... and
(2)

5. Here are the first three terms of a Fibonacci sequence.



235 366 601

Write down the next two terms of the sequence.

..... and
(2)

6. The next term in this Fibonacci sequence is found by adding together the two previous terms.



.... 20 31

Work out the first three terms of the sequence

..... , and
(2)

7. Here are the first and fourth terms of a Fibonacci sequence.



1 27

Find the second term of the sequence.

.....
(2)

8. The fifth and sixth terms of a Fibonacci sequence are shown below.



..... 0 4

Find the first term of the sequence.

.....
(2)

9. The first three terms of a Fibonacci sequence are



x $3x$ $4x$

Find the 5th term of the sequence.

.....
(2)

10. Here are the first two terms of a Fibonacci sequence



y 6

Find the 4th term of the sequence

.....
(2)

11. The third term of a Fibonacci sequence is -12



The fifth term of the same sequence is 41

Work out first term of the sequence

.....
(3)

12. Shown below are the first two terms of a Fibonacci sequence



x y

Work out an expression for the fourth term of the sequence.

.....
(2)

13. The first term of a Fibonacci sequence is x



The third term of the sequence is $2y$

Work out an expression for the fifth term of the sequence.

.....
(3)

14. The second term of a Fibonacci sequence is 27



The fourth term of the sequence is 60.

.... 27 60

Find the sum of the first, third and fifth terms of the sequence.

.....
(3)

15. Here are the first three terms of a Fibonacci sequence



$$3x \quad 4x \quad 7x$$

The difference between the third and sixth term of the sequence is 132

Work out the value of x .

.....
(4)

16. Here are the third and fourth terms of a Fibonacci sequence.



$$\dots \quad \dots \quad \frac{5}{6} \quad \frac{9}{2}$$

Find the first term of the sequence.

.....
(4)