



Types of Sequences



SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 Here are the first two terms of a sequence

2 6 ...

(a) Michael assumes the sequence is an arithmetic sequence.
Using Michael's assumption, work out the next two terms.

..... (2)

(b) Jess assumes the sequence is a geometric sequence.
Using Jess's assumption, work out the next two terms.

..... (2)

(c) Gabby assumes the sequence is a Fibonacci sequence.
Using Gabby's assumption, work out the next two terms.

..... (2)

(Total for Question 1 is 6 marks)



2 Here are the first two terms of a geometric sequence

20 10 ...

Work out the 4th term of the sequence.

.....
(Total for Question 2 is 2 marks)

3 Here are the first two terms of a Fibonacci sequence

2 5 ...

Work out the 4th term of the sequence.

.....
(Total for Question 3 is 2 marks)

4 Here are the first two terms of an arithmetic sequence

2 4 ...

Work out the 4th term of the sequence.

.....
(Total for Question 4 is 2 marks)



5 Here are the first two terms of a Fibonacci sequence

1 3 ...

Work out the 4th term of the sequence.

.....
(Total for Question 5 is 2 marks)

6 Here are the first two terms of an arithmetic sequence

3 9 ...

Work out the 4th term of the sequence.

.....
(Total for Question 6 is 2 marks)

7 Here are the first two terms of a geometric sequence

8 16 ...

Work out the 4th term of the sequence.

.....
(Total for Question 7 is 2 marks)



8 Here are the first three terms of a quadratic sequence

2 5 10 ...

Work out the 4th term of the sequence.

.....
(Total for Question 8 is 2 marks)

9 Here are the first three terms of a quadratic sequence

5 6 11 ...

Work out the 4th term of the sequence.

.....
(Total for Question 9 is 2 marks)



10 Here are the first three terms of a quadratic sequence

8 18 30 ...

Work out the 5th term of the sequence.

.....
(Total for Question 10 is 3 marks)

11 Here are the first three terms of a quadratic sequence

30 22 9 ...

Work out the 5th term of the sequence.

.....
(Total for Question 11 is 3 marks)



12 The third and fourth terms of a geometric sequence are shown below.

... ... 12 24

Work out the 1st term of the sequence.

.....
(Total for Question 12 is 2 marks)

13 The third and fourth terms of an arithmetic sequence are shown below.

... ... 5 15

Work out the 1st term of the sequence.

.....
(Total for Question 13 is 2 marks)

14 The third and fourth terms of a Fibonacci sequence are shown below.

... ... 10 16

Work out the 1st term of the sequence.

.....
(Total for Question 14 is 2 marks)



15 Here are some sequences.

Sequence A

2 4 6 8 10

Sequence B

2 4 8 16 32

Sequence C

2 4 6 10 12

Sequence D

2 4 6 12 24

Sequence E

2 4 8 14 22

Sequence F

2 4 6 10 16

Match each type of sequence in the table to the correct sequence above.

Type of Sequence	Sequence Letter
Arithmetic Sequence	
Quadratic Sequence	
Geometric Sequence	
Fibonacci Sequence	

(Total for Question 15 is 4 marks)

