



# Types of Sequences



SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 The first two terms of a sequence are

2 6 ...

1 (a) Michael assumes the sequence is an arithmetic progression. Using Michael's assumption, work out the next two terms. [2 marks]

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Answer \_\_\_\_\_ and \_\_\_\_\_

1 (b) Jess assumes the sequence is a geometric progression. Using Jess's assumption, work out the next two terms. [2 marks]

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Answer \_\_\_\_\_ and \_\_\_\_\_

1 (c) Gabby assumes the sequence is a Fibonacci-type sequence. Using Gabby's assumption, work out the next two terms. [2 marks]

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Answer \_\_\_\_\_ and \_\_\_\_\_





2 The first two terms of a geometric progression are

20 10 ...

Work out the 4<sup>th</sup> term.

[2 marks]

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Answer \_\_\_\_\_

3 The first two terms of a Fibonacci-type sequence are

2 5 ...

Work out the 4<sup>th</sup> term.

[2 marks]

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Answer \_\_\_\_\_

4 The first two terms of a linear sequence are

2 4 ...

Work out the 4<sup>th</sup> term.

[2 marks]

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Answer \_\_\_\_\_





5 The first two terms of a Fibonacci-type sequence are

1 3 ...

Work out the 4<sup>th</sup> term.

[2 marks]

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Answer \_\_\_\_\_

6 The first two terms of an arithmetic progression are

3 9 ...

Work out the 4<sup>th</sup> term.

[2 marks]

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Answer \_\_\_\_\_

7 The first two terms of a geometric progression are

8 16 ...

Work out the 4<sup>th</sup> term.

[2 marks]

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Answer \_\_\_\_\_

$\frac{\quad}{12}$

Turn over ►





8 The first three terms of a quadratic sequence are

2                      5                      10                      ...

Work out the 4<sup>th</sup> term of the sequence.

[2 marks]

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Answer \_\_\_\_\_

9 The first three terms of a quadratic sequence are

5                      6                      11                      ...

Work out the 4<sup>th</sup> term of the sequence.

[2 marks]

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Answer \_\_\_\_\_





10 The first three terms of a quadratic sequence are

8                      18                      30                      ...

Work out the 5<sup>th</sup> term of the sequence.

[3 marks]

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Answer \_\_\_\_\_

11 The first three terms of a quadratic sequence are

30                      22                      9                      ...

Work out the 5<sup>th</sup> term of the sequence.

[3 marks]

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Answer \_\_\_\_\_

Turn over ►





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

... .. 12 24

Work out the 1<sup>st</sup> term. [2 marks]

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Answer \_\_\_\_\_

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

... .. 5 15

Work out the 1<sup>st</sup> term. [2 marks]

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Answer \_\_\_\_\_

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

... .. 10 16

Work out the 1<sup>st</sup> term. [2 marks]

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Answer \_\_\_\_\_





15

Match the name to the correct sequence.  
One has been done for you.

[3 marks]

Name	Sequence
Linear Sequence	2 4 6 8 10
Quadratic Sequence	2 4 8 16 32
Fibonacci Sequence	2 4 6 10 12
Geometric Sequence	2 4 6 12 24
	2 4 8 14 22
	2 4 6 10 16

