



THIRD SPACE
LEARNING

GCSE Exam Questions

Sequences | Algebra

GCSE Exam Questions: Sequences

- 1) (a) What is the rule to get from one term to the next?

5, 8, 11, 14

(1)

- (b) Find the first and fifth term for the sequence below.

$-5n + 2$

(2)

(3 marks)

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- 2) (a) What is the 12th term in the sequence $2n - 20$?

(1)

- (b) If the last term in the same sequence is 180, how many terms are in the sequence?

(2)

(3 marks)

GCSE Exam Questions: Sequences

3) Look at this sequence:

1, 2, 4, 8, 16

(a) What is the common ratio in the above geometric sequence?

(1)

(b) What would be the 7th and 8th term for the sequence?

(1)

(c) A different geometric sequence is $2, a, 288$.
Calculate the value of a .

(3)
(6 marks)

GCSE Exam Questions: Sequences Answers

	Question	Answer	Marks
1) (a)	What is the rule to get from one term to the next? 5, 8, 11, 14	+ 3	(1)
(b)	Find the first and fifth term for the sequence below. $-5n + 2$	-3 -23	(1) (1)
2) (a)	What is the 12th term in the sequence $2n - 20$?	$2 \times 12 - 20 = 4$	(1)
(b)	If the last term in the same sequence is 180, how many terms are in the sequence?	$2n - 20 = 180$ $2n = 200$ $n = 100$	(1) (1)
3)	Look at this sequence: 1, 2, 4, 8, 16		
(a)	What is the common ratio in the above geometric sequence?	2	(1)
(b)	What would be the 7th and 8th term for the sequence?	6th term = $16 \times 2 = 32$ 7th term = $32 \times 2 = 64$ 8th term = $64 \times 2 = 128$	(1) (1)
(c)	A different geometric sequence is 2, a , 288. Calculate the value of a .	$\frac{288}{a} = \frac{a}{2}$ $576 = a^2$ $24 = a$	(1) (1) (1)

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