

Algebra and Sequences

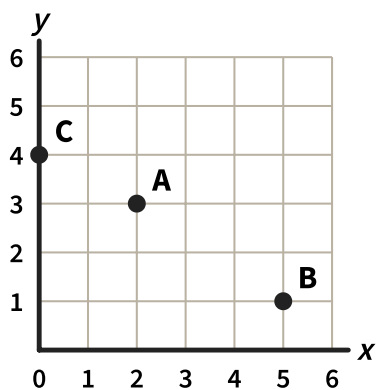
ANSWERS

No calculator | 20 minutes | Total marks: 15

Name

Class

- 1 Write down the coordinates of each point.



(a) Point A

Answer (2, 3) (1) [1 mark]

(b) Point B

Answer (5, 1) (1) [1 mark]

(c) Point C

Answer (0, 4) (1) [1 mark]

- 2 Write each of these in a shorter way.

(a) $3 \times a$

Answer $3a$ (1) [1 mark]

(b) $b \times 5$

Answer $5b$ (1) [1 mark]

(c) $a + a + a$

Answer $3a$ (1) [1 mark]

3

Here is a number pattern.

3 6 9 12

(a) Write down the next two numbers.

Answer 15, 18 (1) [1 mark]

(b) Write down the rule.

Answer add 3 (1) [1 mark]

4

Here is another number pattern.

20 17 14 11

(a) Write down the next two numbers.

Answer 8, 5 (1) [1 mark]

(b) Write down the rule.

Answer subtract 3 (1) [1 mark]

5

A number pattern starts at 2.

The rule is add 4.

Write down the first four numbers in the pattern.

adds 4 each time (1)

Answer 2, 6, 10, 14 (1) [2 marks]

6

$a = 4$

(a) Work out $a + 6$ Answer 10 (1)

[1 mark]

(b) Work out $2a$ Answer 8 (1)

[1 mark]

7

Sam plots the point (3, 1).

He goes 3 up, then 1 across.

What mistake has Sam made? How should he plot (3, 1)?

Answer 3 across first, then 1 up (1)

[1 mark]

Question	Topic	RAG
1	I can read coordinates	
2	I can write algebra in a shorter way	
3	I can continue a pattern and give its rule	
4	I can continue a pattern that goes down	
5	I can make a pattern from a rule	
6	I can put a number in place of a letter	
7	I can plot a point: across, then up	