FOUNDATION

4.7 Sequences (Nth Term): 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write down the missing number in this sequence: 7, 10, 13, __, 19.

(Total for Question 1 is 1 mark)

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2 Work out the 6th term of the sequence defined by nth term = 4n - 1.

(Total for Question 2 is 1 mark)

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3 Find the nth term of the sequence 3, 6, 9, 12, ...

(Total for Question 3 is 2 marks)

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4 Write down an expression for the nth term of the sequence 10, 8, 6, 4, ...

(Total for Question 4 is 2 marks)

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5 This question has two parts.

(a) Write down the nth term of the sequence -2, 1, 4, 7, ... **(2)**

.....

(b) Work out the 10th term. **(1)**

.....

(Total for Question 5 is 3 marks)

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Mark scheme · 4.7 Sequences (Nth Term): 10-minute Pack

Question 1

16 cao **B1**

Answer: 16

Question 2

23 cao **B1**

Answer: 23

Question 3

identify multiply by 3 pattern or show 3, 6, 9, 12 = 3n oe **M1**

3n cao **A1**

Answer: 3n

Question 4

identify subtract 2 each time or form 12 - 2n oe **M1**

12 - 2n cao **A1**

Answer: 12 - 2n

Question 5

(a) identify add 3 pattern or form 3n - 5 oe **M1**

(a) 3n - 5 cao **A1**

(a) Answer: 3n - 5

(b) 25 cao **B1**

(b) Answer: 25

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