ENGLAND GCSE MATHS AQA FOUNDATION · UNIT 6 · 10 QUESTIONS

Algebra, Sequences — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A honeybee visits flowers: 7, 9, 11, 13. The next number is**

- A 19
- B 13
- C 17
- D 15

Understand It with Pulse | Flag a mistake

2 **Hardcover books are arranged in piles of 5, 10, 15, 20. The next pile has**

- A 25
- B 30
- C 15
- D 20

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3 **The nth term of the sequence 3, 1, -1, -3 is**

- A 5n - 2
- B -2n + 5
- C -2n - 5
- D -n + 5

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4 **A thermometer records the temperature falling by 2 degrees each hour: 20, 18, 16, 14. The next temperature is**

- A 10
- B 14
- C 16
- D 12

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5 **The 10th term of the sequence with nth term 7n + 4 is**

- A 66
- B 81
- C 74
- D 67

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6 **Is 34 a term of the sequence with nth term 4n + 2?**

- A No, it is not a term
- B Yes, it is the 7th term
- C Yes, it is the 9th term
- D Yes, it is the 8th term

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7 **Nesting dolls decrease in height by 2 cm each time: 28, 26, 24, 22. The next height is**

- A 24
- B 18
- C 22
- D 20

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8 **A sunflower is 10 cm tall. It grows 4 cm each week. Its height after 8 weeks is**

- A 46
- B 42
- C 38
- D 34

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9 The next two terms of the sequence 7, 13, 19, 25 are

- A 25, 31
- B 37, 43
- C 31, 37
- D 37, 49

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10 The 50th term of the sequence with nth term 5n + 1 is

- A 251
- B 256
- C 246
- D 249

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ANSWER KEY

1.	D	**5.**	C	**9.**	C
2.	A	**6.**	D	**10.**	A
3.	B	**7.**	D		
4.	D	**8.**	B		

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