ENGLAND GCSE MATHS EDEXCEL HIGHER · 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 **Nesting dolls decrease in height by 3 cm each time: 24, 21, 18, 15. The next height is**

- A 18
- B 9
- C 15
- D 12

Understand It with Pulse | Flag a mistake

2 **A sunflower is 8 cm tall. It grows 5 cm each week. Its height after 8 weeks is**

- A 38
- B 48
- C 43
- D 53

Understand It with Pulse | Flag a mistake

3 **A honeybee visits flowers: 6, 9, 12, 15. The next number is**

- A 15
- B 24
- C 21
- D 18

Understand It with Pulse | Flag a mistake

4 **The nth term of the sequence 3, 10, 21, 36 is**

- A $3n^2 + n$
- B $2n^2 + 2n$
- C $2n^2 - n$
- D $2n^2 + n$

Understand It with Pulse | Flag a mistake

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

A 25

B 20

C 15

D 30

Understand It with Pulse | Flag a mistake

6 **Eggs are packed in trays of 6, 12, 18, 24. The next tray holds**

A 36

B 18

C 30

D 24

Understand It with Pulse | Flag a mistake

7 **The next term of the sequence 3, 9, 27, 81 is**

A 84

B 364

C 243

D 246

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8 **The 50th term of the sequence with nth term 7n + 3 is**

A 346

B 347

C 353

D 360

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9 **Is 39 a term of the sequence with nth term 4n + 2?**

- A Yes, it is the 10th term
- B No, it is not a term
- C No, it is the first term
- D Yes, it is the 9th term

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10 **A thermometer records the temperature falling by 3 degrees each hour: 22, 19, 16, 13. The next temperature is**

- A 10
- B 7
- C 16
- D 13

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ANSWER KEY

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

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