ENGLAND GCSE MATHS AQA 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 **A thermometer records the temperature falling by 3 degrees each hour: 24, 21, 18, 15. The next temperature is**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

3 **Is 53 a term of the sequence with nth term 5n + 3?**

A No, it is not a term

B Yes, it is the 9th term

C Yes, it is the 10th term

D Yes, it is the 11th term

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4 **The 50th term of the sequence with nth term 5n + 5 is**

A 250

B 255

C 245

D 260

Understand It with Pulse | Flag a mistake

5 **The nth term of the sequence 0, -3, -6, -9 is**

A -2n + 3

B 3n - 3

C -3n - 3

D -3n + 3

Understand It with Pulse | Flag a mistake

6 **Hardcover books are arranged in piles of 3, 6, 9, 12. The next pile has**

A 15

B 9

C 18

D 12

Understand It with Pulse | Flag a mistake

7 **A sunflower is 8 cm tall. It grows 6 cm each week. Its height after 5 weeks is**

- A 44
- B 26
- C 38
- D 32

Understand It with Pulse | Flag a mistake

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

- A 24
- B 30
- C 36
- D 18

Understand It with Pulse | Flag a mistake

9 **The next two terms of the sequence 10, 15, 20, 25 are**

- A 35, 45
- B 25, 30
- C 35, 40
- D 30, 35

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10 **The nth term of the sequence 3, 8, 15, 24 is**

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

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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