ENGLAND GCSE MATHS EDEXCEL HIGHER · UNIT 6 · 25 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 **Hardcover books are arranged in piles of 4, 8, 12, 16. The next pile has**

- A 24
- B 20
- C 16
- D 12

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2 **A sunflower is 10 cm tall. It grows 4 cm each week. Its height after 7 weeks is**

- A 34
- B 42
- C 38
- D 30

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

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

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4 **Rabbits breed in pairs, and the numbers of pairs are 1, 1, 2, 3, 5, 8. The next term of the sequence is**

- A 13
- B 10
- C 11
- D 16

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5 **Eggs are packed in trays of 12, 24, 36, 48. The next tray holds**

- A 48
- B 36
- C 60
- D 72

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6 **A thermometer records the temperature falling by 3 degrees each hour: 26, 23, 20, 17. The next temperature is**

- A 14
- B 20
- C 17
- D 11

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7 **The next term of the sequence 1, 3, 6, 10, 15 is**

A 18

B 25

C 20

D 21

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8 **The 50th term of the sequence with nth term 7n + 2 is**

A 359

B 345

C 352

D 348

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9 **A honeybee visits flowers: 7, 10, 13, 16. The next number is**

A 16

B 25

C 19

D 22

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10 **Is 22 a term of the sequence with nth term 3n + 3?**

A No, it is the first term

B Yes, it is the 6th term

C Yes, it is the 7th term

D No, it is not a term

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11 The nth term of the sequence 1, 4, 9, 16 is

- A $2n^2$
- B n^2
- C $n^2 + n$
- D $n^2 + 1$

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12 The next two terms of the sequence 4, 7, 10, 13 are

- A 19, 22
- B 16, 19
- C 13, 16
- D 19, 25

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13 **The 25th term of the sequence with nth term 5n + 4 is**

- A 121
- B 124
- C 129
- D 134

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14 **The nth term of the sequence 11, 16, 21, 26 is**

- A 6n + 6
- B 5n + 6
- C 5n - 6
- D 6n + 5

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15 **Is 79 a term of the sequence with nth term 5n + 4?**

- A Yes, it is the 15th term
- B Yes, it is the 16th term
- C Yes, it is the 14th term
- D No, it is not a term

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16 **The nth term of the sequence 4, 10, 18, 28 is**

- A $2n^2 + 3n$
- B $n^2 + 4n$
- C $n^2 + 3n$
- D $n^2 - 3n$

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17 **The next two terms of the sequence 9, 15, 21, 27 are**

A 39, 45

B 33, 39

C 39, 51

D 27, 33

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18 **The 10th term of the sequence with nth term 7n + 1 is**

A 64

B 71

C 78

D 69

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19 **The nth term of the sequence 5, 7, 9, 11 is**

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

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20 **Is 73 a term of the sequence with nth term 5n + 2?**

- A No, it is the first term
- B Yes, it is the 15th term
- C No, it is not a term
- D Yes, it is the 14th term

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

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

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22 The 25th term of the sequence with nth term 3n + 2 is

- A 80
- B 73
- C 77
- D 74

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23 **Is 38 a term of the sequence with nth term 3n + 2?**

- A Yes, it is the 11th term
- B Yes, it is the 13th term
- C Yes, it is the 12th term
- D No, it is not a term

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24 **The next two terms of the sequence 10, 16, 22, 28 are**

- A 40, 52
- B 40, 46
- C 28, 34
- D 34, 40

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25 **The nth term of the sequence 8, 11, 14, 17 is**

A 5n + 3

B 4n + 5

C 3n + 5

D 3n - 5

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ANSWER KEY

1.	B	**10.**	D	**19.**	B
2.	C	**11.**	B	**20.**	C
3.	A	**12.**	B	**21.**	B
4.	A	**13.**	C	**22.**	C
5.	C	**14.**	B	**23.**	C
6.	A	**15.**	A	**24.**	D
7.	D	**16.**	C	**25.**	C
8.	C	**17.**	B		
9.	C	**18.**	B		

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