ENGLAND GCSE MATHS EDEXCEL FOUNDATION · 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 6, 12, 18, 24. The next pile has**

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

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

- A 36
- B 18
- C 24
- 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 24
- B 20
- C 18
- D 22

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4 **A honeybee visits flowers: 5, 7, 9, 11. The next number is**

- A 17
- B 15
- C 13
- D 11

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

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

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6 **A sunflower is 15 cm tall. It grows 5 cm each week. Its height after 5 weeks is**

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

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7 The 50th term of the sequence with nth term 7n + 4 is

- A 361
- B 347
- C 354
- D 346

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

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

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9 **The next term of the sequence 1, 4, 9, 16, 25 is**

- A 30
- B 32
- C 36
- D 49

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10 **Is 78 a term of the sequence with nth term 5n + 2?**

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

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11 The nth term of the sequence 2, 0, -2, -4 is

- A -n + 4
- B -2n + 4
- C 4n - 2
- D -2n - 4

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12 The 50th term of the sequence with nth term 3n + 1 is

- A 148
- B 154
- C 149
- D 151

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13 **The next two terms of the sequence 8, 12, 16, 20 are**

A 24, 28

B 28, 36

C 28, 32

D 20, 24

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14 **Is 37 a term of the sequence with nth term 3n + 4?**

A Yes, it is the 10th term

B Yes, it is the 11th term

C Yes, it is the 12th term

D No, it is not a term

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

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

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16 The 10th term of the sequence with nth term 7n + 3 is

- A 80
- B 73
- C 67
- D 66

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17 The next two terms of the sequence 5, 9, 13, 17 are

- A 25, 29
- B 25, 33
- C 17, 21
- D 21, 25

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

- A 21
- B 20
- C 18
- D 25

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19 **Is 32 a term of the sequence with nth term 3n + 1?**

- 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 11th term

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

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

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21 The 10th term of the sequence with nth term 7n + 6 is

- A 76
- B 69
- C 64
- D 83

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22 The next two terms of the sequence 9, 13, 17, 21 are

- A 29, 33
- B 29, 37
- C 25, 29
- D 21, 25

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23 **Is 25 a term of the sequence with nth term 3n + 1?**

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

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24 **The 15th term of the sequence with nth term 5n + 6 is**

- A 86
- B 76
- C 69
- D 81

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

A 30, 35

B 35, 40

C 35, 45

D 25, 30

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ANSWER KEY

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

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