ENGLAND GCSE MATHS OCR 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 **Eggs are packed in trays of 12, 24, 36, 48. The next tray holds**

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

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

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

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3 **A sunflower is 15 cm tall. It grows 3 cm each week. Its height after 6 weeks is**

- A 27
- B 30
- C 36
- D 33

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4 **A honeybee visits flowers: 5, 8, 11, 14. The next number is**

- A 23
- B 17
- C 20
- D 14

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5 **Nesting dolls decrease in height by 4 cm each time: 28, 24, 20, 16. The next height is**

- A 12
- B 8
- C 20
- D 16

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

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

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7 **The 15th term of the sequence with nth term 3n + 4 is**

- A 46
- B 49
- C 41
- D 52

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8 **The next two terms of the sequence 7, 11, 15, 19 are**

- A 19, 23
- B 27, 35
- C 23, 27
- D 27, 31

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

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

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10 **The nth term of the sequence 1, -2, -5, -8 is**

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

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11 **Is 31 a term of the sequence with nth term 3n + 3?**

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

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12 **The 50th term of the sequence with nth term 3n + 5 is**

- A 155
- B 158
- C 152
- D 145

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

A 25

B 18

C 21

D 20

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14 **The nth term of the sequence 6, 8, 10, 12 is**

A 2n - 4

B 3n + 4

C 2n + 4

D 4n + 2

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15 **Is 57 a term of the sequence with nth term 5n + 2?**

- A Yes, it is the 11th term
- B No, it is not a term
- C Yes, it is the 12th term
- D Yes, it is the 10th term

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16 **The 25th term of the sequence with nth term 7n + 6 is**

- A 181
- B 174
- C 188
- D 169

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17 **The next two terms of the sequence 8, 13, 18, 23 are**

A 33, 38

B 28, 33

C 33, 43

D 23, 28

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

A -2n - 5

B -n + 5

C -2n + 5

D 5n - 2

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19 **Is 63 a term of the sequence with nth term 4n + 2?**

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

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20 **The 15th term of the sequence with nth term 4n + 6 is**

- A 62
- B 70
- C 54
- D 66

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21 The next two terms of the sequence 6, 11, 16, 21 are

A 31, 36

B 31, 41

C 26, 31

D 21, 26

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22 The nth term of the sequence -1, -3, -5, -7 is

A -2n + 1

B n - 2

C -2n - 1

D -n + 1

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23 **Is 28 a term of the sequence with nth term 4n + 4?**

- A No, it is not a term
- B Yes, it is the 7th term
- C Yes, it is the 5th term
- D Yes, it is the 6th term

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24 **The 25th term of the sequence with nth term 7n + 3 is**

- A 185
- B 178
- C 171
- D 172

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25 **The next two terms of the sequence 9, 14, 19, 24 are**

A 34, 39

B 24, 29

C 29, 34

D 34, 44

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ANSWER KEY

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

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