ENGLAND GCSE MATHS AQA 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 **A thermometer records the temperature falling by 2 degrees each hour: 22, 20, 18, 16. The next temperature is**

- A 18
- B 16
- C 14
- D 12

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2 **A sunflower is 15 cm tall. It grows 5 cm each week. Its height after 8 weeks is**

- A 45
- B 60
- C 50
- D 55

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3 **Nesting dolls decrease in height by 3 cm each time: 24, 21, 18, 15. The next height is**

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

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

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

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5 **Hardcover books are arranged in piles of 4, 8, 12, 16. The next pile has**

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

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6 **A honeybee visits flowers: 7, 11, 15, 19. The next number is**

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

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

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

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

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

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9 The nth term of the sequence -2, -5, -8, -11 is

- A -2n + 1
- B n - 3
- C -3n + 1
- D -3n - 1

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10 The next two terms of the sequence 11, 17, 23, 29 are

- A 35, 41
- B 29, 35
- C 41, 53
- D 41, 47

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11 **The 50th term of the sequence with nth term 3n + 2 is**

- A 149
- B 148
- C 155
- D 152

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12 **Is 72 a term of the sequence with nth term 5n + 2?**

- A Yes, it is the 14th term
- B No, it is not a term
- C Yes, it is the 15th term
- D Yes, it is the 13th term

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

A 21

B 25

C 20

D 18

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14 **The nth term of the sequence 3, 5, 7, 9 is**

A 3n + 1

B n + 2

C 2n + 1

D 2n - 1

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

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

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16 The 20th term of the sequence with nth term 4n + 5 is

- A 75
- B 81
- C 85
- D 89

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17 **Is 37 a term of the sequence with nth term 5n + 1?**

A No, it is the first term

B Yes, it is the 8th term

C Yes, it is the 7th term

D No, it is not a term

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18 **The nth term of the sequence 1, -1, -3, -5 is**

A -n + 3

B -2n + 3

C -2n - 3

D 3n - 2

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19 The next two terms of the sequence 8, 14, 20, 26 are

- A 38, 44
- B 32, 38
- C 26, 32
- D 38, 50

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20 The 10th term of the sequence with nth term 4n + 6 is

- A 34
- B 46
- C 42
- D 50

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21 **Is 73 a term of the sequence with nth term 5n + 3?**

- A No, it is not a term
- B Yes, it is the 14th term
- C Yes, it is the 15th term
- D Yes, it is the 13th term

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22 **The nth term of the sequence 0, -2, -4, -6 is**

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

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

A 29, 37

B 21, 25

C 25, 29

D 29, 33

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

A 353

B 360

C 347

D 346

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25

Is 44 a term of the sequence with nth term 3n + 2?

A Yes, it is the 14th term

B No, it is not a term

C Yes, it is the 13th term

D Yes, it is the 15th term

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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