



New Maths GCSE: A25 - nth term sequences with patterns

Name:.....

Date:.....

This pattern has been taken from the wonderful visualpatterns.org

What is the nth term rule for the total number of squares?

A $3n + 2$ **B** $2n + 3$

C $n + 2$ **D** $2n + 5$

Correct Answer: A B C D

Explanation:

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What is the nth term rule for the total number of squares?

A $n^2 + 1$ **B** $4n - 2$

C $4n^2 + 1$ **D** $n^2 + n$

Correct Answer: A B C D

Explanation:

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This pattern has been taken from the wonderful visualpatterns.org

What is the nth term rule for the total number of squares?

A $4n - 2$ **B** $n(n + 1)$

C $n^2 + 1$ **D** $n(n + 2)$

Correct Answer: A B C D

Explanation:

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What is the n th term rule for the total number of rectangles?

A $5n + 4$ **B** $n + 4$

C $4n + 5$ **D** $4n + 1$

Correct Answer: A B C D

Explanation:

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What is the n th term rule for the total number of lines?

A $5n + 1$ **B** $5n + 6$

C $6n + 5$ **D** $n + 5$

Correct Answer: A B C D

Explanation:

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What is the n th term rule for the total number of hexagons?

A $4n + 2$ **B** $n + 4$

C $4n + 6$ **D** $6n + 4$

Correct Answer: A B C D

Explanation:

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What is the n th term rule for the total number of cubes?

A $n^3 + 4$ **B** $n + 4(n - 1)$

C $1 + 4(n - 1)$ **D** $n + 5$

Correct Answer: A B C D

Explanation:

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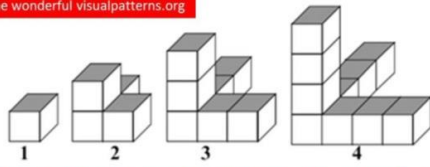
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What is the n th term rule for the total number of cubes?

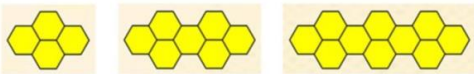
- A** $1 + 2(n + 1)$ **B** $n + 4$
C $n + 2(n - 1)$ **D** $n + 2(n + 1)$

Correct Answer: A B C D

Explanation:

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What is the n th term rule for the total number of hexagons?

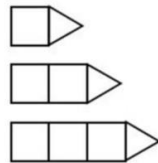
- A** $3n + 1$ **B** $3n - 1$
C $4n$ **D** $n + 3$

Correct Answer: A B C D

Explanation:

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What is the n th term rule for the total number of shapes?

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

Correct Answer: A B C D

Explanation:

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