



Exit Ticket M2 - Quadratic Sequences

Name:

Date:

AQA
Assessing progress

The rule for a sequence is
square the position then add 7

Which of these is the 4th term?

A	B	C	D
9	15	23	121

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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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Merve has been given the first four terms of a quadratic sequence. She finds the first differences and the second differences as shown below.

Sequence	17	18	23	32
First difference		1	5	9
Second difference			4	4

Three of the following statements are true and one is false. Which one is false?

- A The next two numbers in the first difference row are 13 and 17.
- B The sixth term in the sequence is 62.
- C The nth term in the sequence is given by $n^2 - 2n + 18$.
- D The second difference is constant.

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Correct Answer: A B C D

Explanation:

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