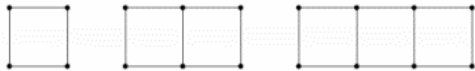


Nth Term of a Sequence– www.m4ths.com

- (1) Study the following sequence:
2, 6, 10, 14, 18
- (a) Find the n th term rule
 - (b) Find the 23rd term in the sequence
 - (c) Find the 126th term in the sequence
 - (d) Is the number 82 in the sequence?
 - (e) Is the number 114 in the sequence?
 - (f) Is the number 313 in the sequence?

- (2) Study the following arithmetic sequence:
5, 7, 9, 11, 13
- (a) Find the n th term rule
 - (b) Find the 17th term in the sequence
 - (c) Find the 85th term in the sequence
 - (d) Is the number 31 in the sequence?
 - (e) Is the number 82 in the sequence?
 - (f) Is the number 105 in the sequence?

- (3) The shapes below are made from dots and sticks and form a pattern.



- (a) Write an n th term formula for the number of dots in each square.
- (b) Write an n th term formula for the number of sticks in each square.
- (c) Find the number of dots in the 33rd shape.
- (d) Find the number of sticks in the 75th shape
- (e) Is there a shape with 71 dots in it?
- (f) Is there a shape with 71 sticks in it?
- (g) Is there a shape with 81 sticks in it?

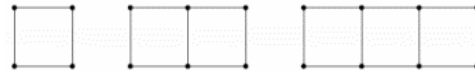
- (4) The n th term formula of a sequence is $5n - 1$.
- (a) Write out the first 5 terms of the sequence.
 - (b) Find the 23rd term of the sequence.
 - (c) Is the number 79 in the sequences?
 - (d) Find the least number of terms such that the n th term of the sequence exceeds 250.
 - (e) Find the first term that's greater than the 4th cube number.

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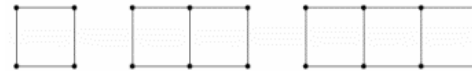
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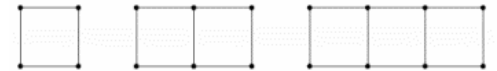
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