



Quadratic Sequences GCSE IGCSE Exam Questions

Edexcel GCSE Specimen 2H Q17

17 Here are the first 5 terms of a quadratic sequence.

1 3 7 13 21

Find an expression, in terms of n , for the n th term of this quadratic sequence.

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(Total for Question 17 is 3 marks)

OCR GCSE Nov 2018 Paper 4 Q17

17 Here are the first four terms of a quadratic sequence.

2 15 34 59

The n th term is $an^2 + bn + c$.

Find the values of a , b and c .

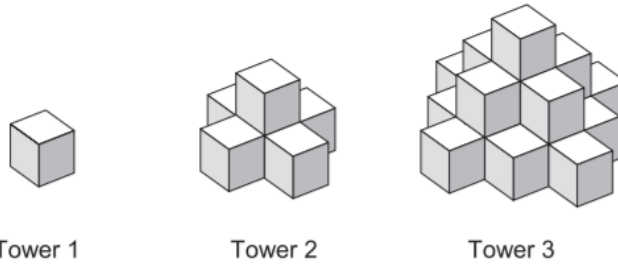
$a =$

$b =$

$c =$ [4]

OCR GCSE Sample 5 Q10

- 10 Here is a picture of three towers.
Not all the cubes can be seen in the towers.



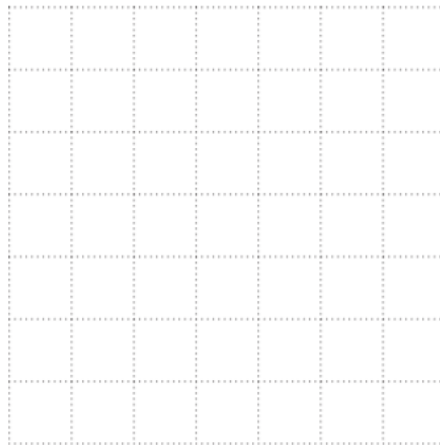
Edith uses 1 cube to build tower 1.

Edith uses 6 cubes to build tower 2. There are 5 cubes on the bottom layer.

- (a) Write down the total number of cubes in tower 3.

(a) [1]

- (b) Draw a plan view of the arrangement of cubes Edith will use for the bottom layer of tower 4.



[1]

(c) Continue this sequence to show the number of cubes used for the bottom layer of each tower.

Tower 1	Tower 2	Tower 3	Tower 4
1	5

[2]

(d) Find an expression for the number of cubes used in the bottom layer of tower n .

(d) [4]