Sequences

Question Paper

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Sequences, Functions and Graphs
Sub Topic	Sequences
Booklet	Question Paper

Time Allowed: 20 minutes

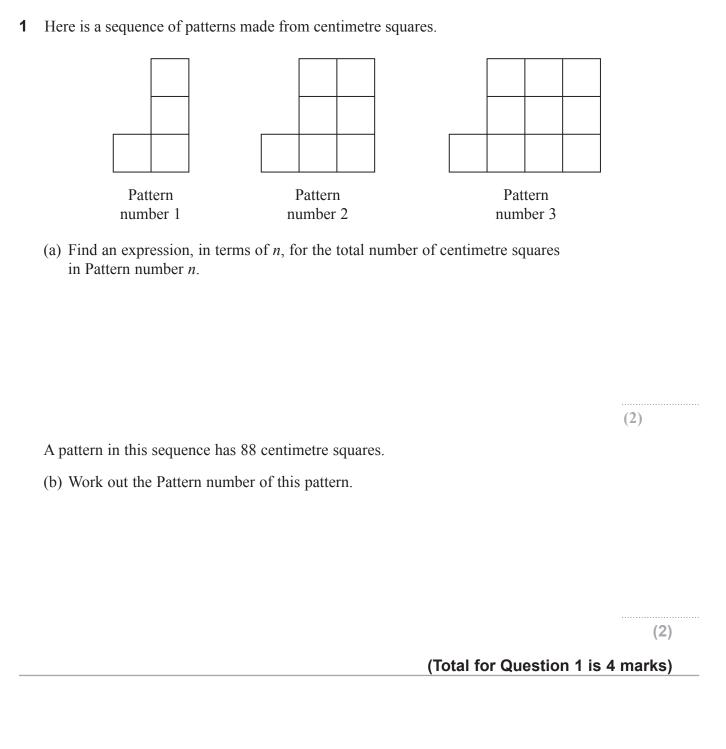
/16 Score:

/100 Percentage:

Grade Boundaries:

9	8	7	6	5	4	3	2	1
>90%	80%	70%	60%	50%	40%	30%	20%	10%

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2 Here are some rows of a number pattern.

Row number	Column 1	Column 2	Column 3
1	$1 \times 3 + 1$	4	22
2	2 × 4 + 1	9	32
3	3 × 5 + 1	16	42
•			
		676	
•			
n			

(ัล)	Write	down	the Row	/ number	of the	row that	has	676 iı	n Column	2
l	a_{j}	WIIIC	uown	uic itov	Hullioci	or the	10w mat	mas	0/0 11	i Columni	. 4

(1)

- (b) For Row number n,
 - (i) write down an expression, in terms of n, that should go in Column 1

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	(ii) write down an expression, in terms of n , that should go in Column 3	
	(2))
	(Total for Question 2 is 3 marks))
3	The first four terms of an arithmetic sequence are	
	5 9 13 17	
	(a) Write down an expression, in terms of n , for the n th term.	
	(2)	
	(b) Write down an expression, in terms of n , for the $(n + 1)$ th term.	
	(1)	
	(Total for Question 3 is 3 marks)	

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4	n is a positive integer.	
	(a) Explain why $2n + 1$ is an odd number for all values of n .	
	((1)

(b) Show, using algebra, that the sum of any 4 consecutive odd numbers is always a multiple of 8

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				(Total for Question 5 is 2 marks)
Find an expression for	the <i>n</i> th term	of the se	equence.	
			13	16
	-	1.0	1.2	17
Here are the first five	terms of an a	rithmetic	sequence).