<u>5eq</u>	uences (Nth Term) Past Pa	aper Questions	
Z1. Jere are some patterns made f	rom dots.		
• •			
• •	• • • • • •	•••••	•.
• •	• • •	• • •	•
Pattern number 1	Pattern number 2	Pattern number 3	
a) Draw Pattern number 4 in	he space below.		
			()
b) How many dots are needed	for Pattern number 15?		
			(Z
		(Total for Question	is 3 mark

Here are some patterns m	nade from sticks.						
p	Attern number 1	Patterr		2	Pat		aber 3
(a) In the space below, dr	raw Pattern number 4	4	i indirioci	2	1 at		
							(
(b) Complete the table.							
	Pattern number	1	2	3	4	5]
	Number of sticks	3	5	7			
							(
(c) How many sticks mak	ke Pattern number 15	5?					
Maria wants to work out	how many sticks ma	ike Pat	tern nur	nber 50)		(
Maria wants to work out (d) Write down a method	how many sticks ma l she can use.	ike Pat	tern nur	nber 50)		(
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Maria wants to work out (d) Write down a method	how many sticks ma	ke Pat	tern nur	nber 50)	(То	
Maria wants to work out (d) Write down a method	how many sticks ma	ike Pat	tern nur	nber 50)	(То	





Q5.	
Here are the first five terms of an arithmetic sequence.	_
3 5 7 9 11	
Write down, in terms of <i>n</i> , an expression for the <i>n</i> th term of the sequence	2.
	(Total for Question is 2 marks)
Q6.	
The first term of a sequence of numbers is 18 The term-to-term rule for this sequence is "add 6"	
(a) Is 603 a term of the sequence?	
You must explain your answer.	
	(1)
(b) Rizvi says,	
"No terms of the sequence are multiples	of 7"
Give an example to show Rizvi is wrong.	
	(1)
	(Total for question = 2 marks)

Q7.	
Here are the first four terms of an arithmetic sequence.	
11 17 23 2	9
(a) Find, in terms of <i>n</i> , an expression for the <i>n</i> th term of this arithmetical for the <i>n</i> th term of this arithmetical for the <i>n</i> th term of this arithmetical for the <i>n</i> th term of the term of term of the term of	netic sequence.
b) Is 121 a term of this arithmetic sequence? You must explain your answer.	(2
	(2
08.	(Total for question = 4 marks
Here are the first five terms of an arithmetic sequence. 7 12 10 25	21
Here are the first five terms of an arithmetic sequence. 7 13 19 25	31
Here are the first five terms of an arithmetic sequence. 7 13 19 25 (a) Find an expression, in terms of <i>n</i> , for the <i>n</i> th term of this sequence.	31 ence.
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Here are the first five terms of an arithmetic sequence. 7 13 19 25 a) Find an expression, in terms of <i>n</i> , for the <i>n</i> th term of this sequence the <i>n</i> th term of a different sequence is $8 - 6n$ b) Is -58 a term of this sequence?	31 ence.
 Here are the first five terms of an arithmetic sequence. 7 13 19 25 a) Find an expression, in terms of <i>n</i>, for the <i>n</i>th term of this sequence The <i>n</i>th term of a different sequence is 8 – 6<i>n</i> b) Is –58 a term of this sequence? 	31 ence. (2
 Here are the first five terms of an arithmetic sequence. 7 13 19 25 a) Find an expression, in terms of <i>n</i>, for the <i>n</i>th term of this sequence A sequence is 8 - 6n b) Is -58 a term of this sequence? You must show how you get your answer. 	31 ence.
 Here are the first five terms of an arithmetic sequence. 7 13 19 25 a) Find an expression, in terms of <i>n</i>, for the <i>n</i>th term of this sequence a) Find an expression in terms of <i>n</i>, for the <i>n</i>th term of this sequence b) Is -58 a term of this sequence? b) Is -58 a term of this sequence? You must show how you get your answer. 	31 ence. (2
 Here are the first five terms of an arithmetic sequence. 7 13 19 25 a) Find an expression, in terms of <i>n</i>, for the <i>n</i>th term of this sequence 61 Find an expression of a different sequence is 8 – 6<i>n</i> b) Is –58 a term of this sequence? You must show how you get your answer. 	31 ence.
 Here are the first five terms of an arithmetic sequence. 7 13 19 25 (a) Find an expression, in terms of <i>n</i>, for the <i>n</i>th term of this sequence (b) Is -58 a term of this sequence? (c) You must show how you get your answer. 	31 ence. (2

Q9.					
Here are the first 5 ter	ms of an arithmetic	sequence.			
3	9	15		21	27
(a) Find an expression	n, in terms of <i>n</i> , for t	the <i>n</i> th term of this sec	quence.		
en says that 150 is ir	n the sequence.				
b) Is Ben right? You must explain	your answer.				
			•••••		(
				(Total for	r Question is 3 mark
)10					
210.					
Here are the first five	terms of an arithmet	ic sequence.	0	12	
Here are the first five	terms of an arithmet -3 terms of <i>n</i> , for the <i>n</i>	ic sequence. 1 5 th term of this sequer	9 nce.	13	
Here are the first five	terms of an arithmet -3 terms of <i>n</i> , for the <i>n</i>	ic sequence. 1 5 <i>i</i> th term of this sequer	9 nce.	13	
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