4	The sum S_n of the first n terms of an arithmetic series is given by $S_n = 2n(10 - n)$	
	(a) Write down the first term of the series.	(1)
	(b) Find the common difference of the series.	(2)
	Given that $S_n > -50$	
	(c) (i) write down an inequality satisfied by n ,	
	(ii) hence find the largest value of n for which $S_n > -50$	(4)
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Question 4 continued			
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(Total for Question 4 is 7 marks)			

