Question	Scheme	Marks	AOs
8(a)(i)	$150 + 29 \times 10 = \dots$	M1	3.4
	=440	A1	1.1b
(ii)	$S_{30} = \frac{1}{2} (30) (2 \times 150 + 29 \times 10) = \dots$ or $S_{30} = \frac{1}{2} (30) (150 + "440") = \dots$	M1	3.4
	= 8850	A1	1.1b
		(4)	
(b)	$\frac{1}{2}(52)(2\times150+51d) = 15000 \Longrightarrow d = \dots$	M1	3.1b
	d = 5.42 so the minimum value of d is 6	A1	3.2a
		(2)	
(c)	E.g. The increase in the number of candles sold each week is unlikely to be a constant	B1	3.5b
		(1)	
(7 marks)			
Notes			
(a)(i) M1: Uses A1: For 44 (ii) M1: Uses A1: For 88 (b) M1: Correc 52, <i>a</i> = 15 A1: Interp (c)	the model and a correct term formula to find the required value 40 the model and a correct sum formula to find the required value 350 ect strategy to find the value of <i>d</i> . Requires the use of a correct sum form 0, sets = 15 000 and solves for <i>d</i> . Allow use of e.g. "> 15 000" rather the rets the value of <i>d</i> correctly and gives the answer 6 only	nula with Ian "= 15	n = 5 000"
B1: See scheme			