Question Number	Scheme	Marks
1 (a)	$78+17\times-3=27$	M1, A1 **(2)**
(b)	$\frac{100}{2}(2\times78+99\times-3)$	M1
	$=-7050$	A1 **(2)** **(4 marks)**

(a)

M1: Attempts to find the value of $a+(n-1)d$ with $a = 78$, $n = 18$ and $d = -3$. E.g.

Award for $78+17\times-3=...$

Condone slips, so for example 78 written as 87…

BUT writing 78 as 18 (which is the value of n) or -3 as 3 are not regarded as slips

Writing down 27 scores both marks

Listing is acceptable only if they write down 27 as the answer

A1: 27

(b)

M1: Attempts the correct sum formula for 100 terms. So $n = 100$ must be used (twice).

Condone with $d=\pm3$ and slips on 78 …. BUT writing 78 as 18 is not regarded as a slip

Award for an attempt at $\frac{100}{2}(2\times78+99\times-3)$ or $\frac{100}{2}(2\times78+99\times3)$ o.e.

Writing down -7050 scores both marks

You may see the alternative formula used, usually seen with an attempt to find u_{100} first.

Look for $\frac{100}{2}(78+u_{100})$ condoning the same slips on 78 and u_{100} found via $78+99\times\pm3$

A1: -7050 but this is not isw. Withhold this mark if they write -7050 and follow this with 7050

Guidance on applications of formulae for this question: