Question Number	Answer	Notes	Marks
1	$\sum_{r=4}^{40}(7r-2)=\frac{37}{2}(26+278)$ $=5624$	B1 M1A1 A1	**(4)**

Notes

Method 1

B1 for $n=37$

M1 attempts to use their a and d in either $S_n=\frac{n}{2}(2a+(n-1)d)$,

or a and l in $S_n=\frac{n}{2}(a+l)$ with their n, where n = 36 or 37 only

A1 for a fully correct expression for S_n

A1 for 5624 cso.

Method 2

B1 correct limits of r in $\sum_{r=1}^{40}(7r-2)-\sum_{r=1}^{3}(7r-2)$

M1 attempts to use their a and d in either $S_n=\frac{n}{2}(2a+(n-1)d)$,

or a and l in $S_n=\frac{n}{2}(a+l)$ where the upper limit for n is n = 40 and 4 or 3 respectively only, **AND** subtracts the two summations.

A1 for a fully correct expression for S_n

A1 for 5624 cso.

***S* = 5624 seen with no working or a list achieves full marks**