19	$a = 3$ and $d = 4$			6	M1 for a and d (can be embedded in the formula for S_n)
	$\frac{n}{2}\left[2(3)+(n-1)4\right] = 7260$ or $\frac{n}{2}(2+4n) = 7260$ oe	$\frac{n}{2}(3+x) = 7260$ and $x = 3+(n-1)4$			M1 Allow $n = x$
	eg $4n^2 + 2n = 14520$ oe $2n^2 + n - 7260(=0)$ oe $8n^2 + 4n - 29040(=0)$ oe	eg $x^2 + 4x - 58077 = 0$ oe $x^2 + 4x = 58077$			M1ft dep on previous M1 for forming a three term quadratic in any form of $ax^2 + bx + c$ (= 0) where at least 2 coefficients (a or b or c) are correct
	eg $(2n+121)(n-60)(=0)$ eg $(n=)\ \frac{-1\pm\sqrt{1^2-4\times2\times-7260}}{4}$ eg $2\left[\left(n+\frac{1}{4}\right)^2-\left(\frac{1}{4}\right)^2\right] = 7260$	eg $(x-239)(x+243)(=0)$ eg $(x=)\ \frac{-4\pm\sqrt{4^2-4\times1\times-58077}}{2}$ eg $(x+2)^2-(2)^2 = 58077$			M1ft dep on previous M1 for a method to solve **their** 3 term quadratic using any correct method Allow one sign error and some simplification – allow as far as eg $\frac{-1\pm\sqrt{1+58080}}{4}$ or $\frac{-4\pm\sqrt{16+232308}}{2}$
	(n =) 60 (and (n =) −60.5)	(x =) 239 (and (x =) −243)			A1 dep on M3 Ignore negative values
	Working required		239		A1 cao dep on M3 SCB2 if not shown clear algebraic working but give an answer of 239 (with method shown involving $a = 3$ and $d = 4$) as question asks for algebraic working. 239 alone gains zero marks
					Total 6 marks