20	$\frac{3k}{4}-k$ or $\frac{k}{2}-\frac{3k}{4}$ or $\frac{k}{4}-\frac{k}{2}\left(=-\frac{k}{4}\right)$ or $\frac{90+2k-k}{14}=\left(\frac{90+k}{14}\right)$		5	M1 for finding the common difference (d) in terms of k
	eg $90+2k=k+(15-1)'\left(\frac{3k}{4}-k\right)'$ oe or $'\frac{3k}{4}-k'='\frac{90+k}{14}'$ oe			M1 dep equating 2 different expressions in terms of k using their value(s) of d in terms of k (or from working using k) or other correct method to find k
	$k=-20$			A1
	$\frac{30}{2}\left[2('-20')+(30-1)\left(\frac{-'-20'}{4}\right)\right]$ oe			M1 dep on previous M1 for correctly substituting, into $(S_n=)\frac{30}{2}\left[2k+(30-1)d\right]$ or $\frac{30}{2}(k+l)$ where $l=k+29d$ all values to be numerical
	Correct answer scores full marks (unless from obvious incorrect working)	1575		A1
				Total 5 marks