Q	Marking instructions	AO	Marks	Typical solution
10(a)	Substitutes $n=300, a=-7$ and $l=32$ Into $S_n=\frac{n}{2}(a+l)$ Or Substitutes $n=300, a=-7$ and $d=\frac{39}{299}=\frac{3}{23}$ into $S_n=\frac{n}{2}(2a+(n-1)d)$ Condone n = 299 or 301 and d = AWRT 0.13	3.1a	M1	$S_{300}=\frac{300}{2}(-7+32)$ $=3750$
	Obtains 3750	1.1b	A1	
	Subtotal		**2**	

Q	Marking instructions	AO	Marks	Typical solution
10(b)	Forms an equation using $S_9=1260$ Might see $\frac{9}{2}(2a+8d)=1260 \Rightarrow a+4d=140$	3.4	M1	$\frac{9}{2}(a+l)=1260 \Rightarrow a+l=280$ $l=6a$ $7a=280$ $a=40, l=240$ Value of top prize = £240
	Forms an equation using the relationship between the highest and least values. eg $a+8d=6a$ or $l=6a$ OE Might see $l=\frac{1}{6}a$ which may indicate the candidate is correctly working from the highest term to the lowest term.	3.4	M1	
	Obtains and solves an equation in one variable having formed one equation using $S_9=1260$ OR used the relationship between the highest and least values.	3.1a	M1	
	Obtains £240 Must have correct units. CAO	3.2a	A1	
	Subtotal		**4**	

	Question 10 Total		**6**	