Question Number	Scheme	Marks
7(a)	$\frac{97.5-\mu}{\sigma}=1.25$ $\frac{85.5-\mu}{\sigma}=-0.75$	M1 M1 M1 M1 M1
	$2\sigma=12$	M1
	$\sigma=6$ * $[\mu=90]$	dA1*
		(7)
(b)	$np=90$ and $np(1-p)=36$	M1
	$1-p=0.4$	M1
	$p=0.6$ and $n=150$	A1
		(3)
	Notes	**Total 10**

NB Condone use of np for μ and $\sqrt{np(1-p)}$ for σ

(a)	**M1**	For standardising using 96.5/97/97.5 and = z value, where $1<z<1.5$
	M1	For standardising using 85.5/86/86.5 and = z value, where $-1<z<-0.5$
	M1	For use of a correct continuity correction in either equation
	M1	For a correct z value used in either equation
	M1	An attempt at both equations with one fully correct
	M1	For solving simultaneously eliminating μ or σ As this is a show that question then working must be seen.
	dA1	Dependent on all previous M marks being awarded $\sigma=6$ *
(b)	**M1**	For $np=\mu$ and $np(1-p)=\sigma^2$ Follow through their μ (Condone $npq=\sigma^2$)
	M1	For solving simultaneously. May be implied by a correct value for p and n
	A1	Both $p=0.6$ and $n=150$

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