Question			Answer	Marks	AO	Guidance
9	(a)		0.886 (3 sf)	B1 [1]	1.1	awrt 0.886 (Condone 88.6%)
9	(b)		$\Phi(0.8)$ and $\Phi(0.3)$	M1*	3.1a	Attempted, values not required and allow truncated or rounded values e.g. 0.84… etc. throughout. May be implied by ±0.84162 & ±0.52440
			$0.84162 = \frac{502-\mu}{\sigma}$ and $-0.52440 = \frac{499-\mu}{\sigma}$	A1	3.4	Allow $\Phi(0.8)$ and $\Phi(0.3)$ – or use of these expressions throughout (need not see values for Φ but if given they must be correct)
			$\frac{0.84162}{-0.52440} = \frac{502-\mu}{499-\mu}$ oe **or** $(0.84162 + 0.52440)\sigma = 502 - 499$ oe	M1 dep*	1.1	One correct equation in one unknown (FT their Φ values) (may be implied by correct answers).
			μ = 500.15 (2 dp) and σ = 2.20 (2 dp)	A1 A1 [5]	1.1 1.1	Correct answers to 2sf (500 and 2.2) or better Correct answers to exactly 2dp, cao SCB1 for one correct answer to 2dp (max 4/5) or if one/both answers are given with no/insufficient working (max 1/5).
9	(c)	(i)	0.5 and 3.5	B1 [1]	1.1	Allow 0 to 1, 3 to 4
9	(c)	(ii)	1.5			$\frac{\text{Their }'3.5' - '0.5'}{2}$ or $\lvert 2 - '3.5' \rvert$ or $\lvert 2 - '0.5' \rvert$ FT their points of inflection (Note that $\mu \approx 2$)
			Inflection points are one sd from mean	B1FT [1]	1.2	Need value and explanation (calculation alone is not sufficient)