10	(i)	Only 784 trees and 810 > 784	E1	2.4	or other similar	
			[1]			
10	(ii)	eg Each no. not independent of previous no. Each no. is related to the next	E1 [1]	2.3	Allow 2nd digit of each no. is 1st of next Consecutive nos share two digits Ignore all else	or similar correct Digits are re-used

Question		n	Answer	Mks	AO	Guidance	
10	(iii)		$H_0: \mu = 4.2$	B1	1.1	Allow other letters except X or \overline{X}	
			H ₁ : $\mu < 4.2$ where μ is mean height of trees (in the wood)	B1	2.5	One error, eg undefined μ or 2-tail: B0B1	
			$\overline{X} \sim N(4.2, \frac{0.8^2}{50}) \text{ and } \overline{X} < 4.0 \text{ or } \overline{X} \le 4.0$	M1	3.3	Stated or implied Allow $\overline{X} > 4.0$ or $\overline{X} = 4.0$	$\phi^{-1}(0.98)$ (= 2.054)
			$P(\overline{X} < 4.0) = 0.038549$ or 0.039	A1	3.4	BC Allow 0.038 NB 0.038 implies M1A1	$4.2 - 2.054 \times \frac{0.8}{\sqrt{50}}$ (= 3.968)
			Compare 0.02	A1	1.1	dep P(\overline{X} < 4.0) attempted	comp their 3.968 with 4.0
			Do not reject H ₀	M1	2.2b	Allow Accept H ₀ dep P($\overline{X} < 4.0$) attempted	Can be implied by conclusion
			There is insufficient evidence that mean height of these trees in the wood is less than 4.2m.	A1f	3.5a	In context, not definite; eg "Mean height not less than 4.2m": A0	
				[7]			