Question	Answer	Marks	Guidance
(a)	H_0 : $\mu = 25.5$ H_1 : $\mu < 25.5$	B1	
	$\frac{23.7 - 25.5}{5.2 \div \sqrt{40}}$	M1	Must have √40
	= -2.189	A1	
	'2.189' < 2.326	M1	For valid comparison
			For two-tailed test: allow compare 2.576 if H_1 : $\mu \neq$ 25.5
	[Accept H ₀] No evidence that mean time has decreased	A1 FT	In context, not definite, no contradictions FT their 2.189 but no FT for two-tailed test N.B. Use of two-tailed test can score max B0 M1 A1 M1 A0 Condone use of critical value method (23.59 M1 A1 and 23.7 > 23.59 M1 A1 correct conclusion or 25.612 M1 A1 and 25.5 < 25.612 M1 A1 with correct conclusion)
		5	
(b)	No, because H ₀ was not rejected	B1 FT	FT their conclusion in (a)
		1	