Question	Scheme	Marks	AOs
2(a)(i)	$Q_2 = 11$	B1	1.1b
(ii)	Range = $(21 - 4) = 17$	B1	1.1b
		(2)	
(b)	$H_0: \rho = 0 \qquad H_1: \rho < 0$	B1	2.5
	cv = -0.5214	M1ft	1.1b
	-0.9286 < -0.5214 so in critical region Sufficient evidence to reject H ₀ and supports Xiang's belief.	A1	2.2b
		(3)	
(c)	(As temperatures are increasing) improving scores would have opposite affect so this result gives stronger evidence for her belief.	B1	2.4
		(1)	
(6 marks)			
Notes:			
(a)(i) B1: cao 11 (ii) B1: cao 17			
 (b) B1: must be in terms of ρ M1: ft on their H₁ (2 tail cv would be ±0.6021) A1: need correct conclusion in context, consistent with their cv (c) 			
B1: any comment which suggests stronger evidence for her belief.			