

Q	Marking instructions	AO	Marks	Typical solution
14(a)	Obtains 2700	1.1b	B1	2700
	Subtotal		1	

Q	Marking instructions	AO	Marks	Typical solution
14(b)	Uses the correct formula for standard deviation using their mean PI by 400	1.1a	M1	$\sqrt{\frac{260750000}{350} - 2700^2} = 400$
	Obtains 400	1.1b	A1	
	Subtotal		2	

Q	Marking instructions	AO	Marks	Typical solution
14(c)	Concludes correctly in context for the means Comparison must include the word such as 'on average' or 'typically' etc Follow through the correct comparison of 3100 with their mean from part 14(a)	2.4	E1F	<p>The cost of energy for households in Village A is less on average</p> <p>The variation in cost of energy is higher in Village A.</p>
	Concludes correctly in context for the standard deviations Comparison must include the word such as 'varies', 'spread' 'disperse' 'variation' or 'consistent' etc Follow through the correct comparison of 325 with their standard deviation from part 14(b) Do not allow comparison that includes 'range' or 'variety'	2.4	E1F	
	Subtotal		2	

	Question 14 Total		5	
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