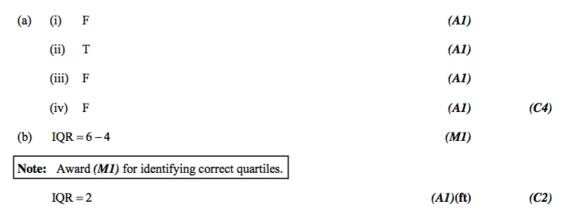
# Descriptive Stats 3 Standard Deviation Answers

## 1) QUESTION 1



*[6 marks]* M09/5/MATSD/SP1/ENG/TZ1/XX

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Q4	(a)	Mode = 171	(A1)	
`	` ′	Median 148, 151, 158, 163, 171, 171, 184		
		= 163	(A1)	
		Mean = 64.7	(A1)	
		Standard deviation = 13.3	(A1)	
		If both mean and standard deviation given to 2 significa	int figures	
		Mean 65, (A0)(AP)		
		Standard deviation 13 (A1)(ft) ((AP) already deducted)	.     (	(C4)
	Q4	Q4 (a)	Q4 (a) Mode = 171	Q4 (a) Mode = 171     Median 148, 151, 158, 163, 171, 171, 184     = 163     Mean = 64.7     Standard deviation = 13.3     If both mean and standard deviation given to 2 significant figures  (A1)

M08/5/MATSD/SP1/ENG/TZ1/XX+

# 3) Part A

(a)	(i)	50	(G1)
	(ii)	16.8	(G1)
	(iii)	30.5	(G1)
	(iv)	12.3	(G1)

**Note:** Award (A1)(ft) for 13.0 in (iv) but only if 17.7 seen in (a)(ii).

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[4 marks]

# Descriptive Stats 3 Standard Deviation Answers

### 4) QUESTION 7

(a) 55 (A1) (C1)

(b) (i)  $62.\overline{5}$  (62.6) (A2)(ft) (C2)

(ii) 8.86 (A1) (C1)

Note: Follow through from their answer to part (a).

(c)  $62.6-3\times8.86=36.0$  (M1)(A1)(ft) (C2)

Note: Accept 36.

Follow through from their values in part (b) only if working is seen.

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5					[4 marks]	
	(b)	(i)	4	(G1)		
		(ii)	2.58	(G1)		
		(iii)	30	(G1)		
		(iv)	4.78 If wrong version of s.d. used in (ii), can (ft) in (iv) (5.07).	(G1)		
			y mong residency state and an (by, can (by the (by (blov))		[4 marks]	

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