

Descriptive Stats 3 Standard Deviation Answers

1) QUESTION 1

- (a) (i) F (AI)
 (ii) T (AI)
 (iii) F (AI)
 (iv) F (AI) (C4)
 (b) IQR = 6 - 4 (MI)

Note: Award (MI) for identifying correct quartiles.

IQR = 2 (AI)(ft) (C2)

[6 marks]

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2)

Q4	(a) Mode = 171 Median 148, 151, 158, 163, 171, 171, 184 = 163 Mean = 64.7 Standard deviation = 13.3 <i>If both mean and standard deviation given to 2 significant figures</i> Mean 65, (A0)(AP) Standard deviation 13 (AI)(ft) ((AP) already deducted).	(AI) (AI) (AI) (AI) (C4)
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3)

Part A

- (a) (i) 50 (GI)
 (ii) 16.8 (GI)
 (iii) 30.5 (GI)
 (iv) 12.3 (GI)

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

[4 marks]

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4) QUESTION 7

(a) 55 (A1) (C1)

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

(ii) 8.86 (A1) (C1)

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

(c) $62.6 - 3 \times 8.86 = 36.0$ (M1)(A1)(ft) (C2)

Note: Accept 36.
Follow through from their values in part (b) **only if working is seen.**

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(b) (i) 4

(G1)

(ii) 2.58

(G1)

(iii) 30

(G1)

(iv) 4.78

(G1)

If wrong version of s.d. used in (ii), can (ft) in (iv) (5.07).

[4 marks]

[4 marks]

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