Assignment - 2 Q) d= {23,21,20,19,24,27,28} find Variance and standard deviation:

N=23+21+20+19+24+27+24 ST WKT, (xi-x)2 = 162 = 23.14 n-1 (Mi-N.) 21-江 0.0196 14 -0.14 4.579 23.14 23 2.14 21.14 21 9.859 23. W 23-14 20 17.139 4.14 23-14 19 0.739 0.86 25.14 24 14-899 3.86 4.14 27 23.619

5=70.853

6-0196+4.

23.14

Variance

28

4.86

Shounders deviation

a) Find the outliners of {-8,1,2,4,5,6,8,15,20,120} using Body Plot? Min (151.)

(151.) Judian (151.)

median Lower fence = Q1-115 (IQR) higher fence 203+1.5(IOR) 01= 25 ×11=2.75 (Index) IRR. Q3-Q1 Q3= 283 ×11 = 8.25 (andex) Q1: 25 x(n+1) Q1= 1+2 23 21.5 + Value Q3 = 75 x (n+1) Q3=15+20 2 35 2 17.5 (Value) IQR: 17.5-1.5= 16 bwerfence 21.5-1.5 (16) 120 is outliner historiena : 17.5 + 1.5 (16) 2 HI.5 Another way 2-8/11/2/4/5/6/8/15/20 1203 1.5 5.5 median (median) -22.5 15 5.5 17.8 41.5 Q1-1.5(ZQR)