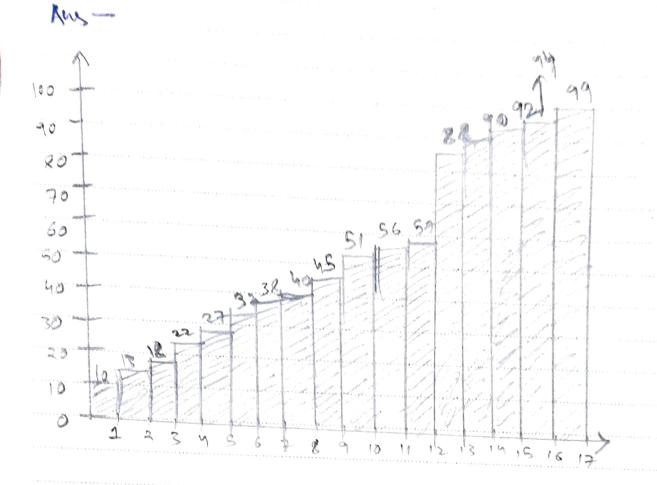


1) Plat a histogram,

10, 13, 18, 22,27,32,38, 40, 45, 51, 56, 57,



Standard deviation in known to be 100. A Sample of 23 texts taken has a mean of 520. Construct an 80 1/. C.I. about the means?

ANS- given !-0 = 100, N = 25, N = 520 Date Gence of is given Z feet. CI = 801/. CI = n + Hargin of wron = 520 + Zy2 Tr = 820+0.83×100 = 520± 85° = 520+17. CI'- Lower Jence = 503 Ans Upper Jence = 537 03> A car believes that the percentage of a tizeny in city ABC that owns a vehicle in 60%. or less. A leles manager des agrees with this. the conducted a by potheris testing curreying 250 residents and found frest 170 rendents responded yes to owning a velicle. a) state the null le alternate hypothère. by Ht a 10%. cignificance level, is there enough suidence to support the i dea that vehicle owner in ABC vity is 60%. or leed!



Ans - Ho (mill by potherie) = The percentage of people owning a car L Go'. Ma (alternate hypotheire) = The percentage of people owning a car > 60%.

N = 250, N = 170 Proportion (PO) = 170 = 0.68 Po = 0.68 Po = 0.69 Po = 0.69 Po = 0.49 Po = 10.49 Po = 10.40 Po = 10.49 Po = 10. At X = 0.1, Z take we have

Zvalue = 1.29 Since Zecore = 2.58>1029, we reject the mill Conclusion: - The manager is right and the vehicle ownership is more than 60%. 04) what in the value of the 99 percentile 11 2,2,3,4,5,5,6,6,38,8,9,9,9,10,11,11,12 Date Ans - Index = Parcentile x n = 99 × 24 = 9.9 (Average, P of athans 110 the Tuder Value = 7+8 = 15 = [7:3] S Q5> In left and Right - Skewed data, what in the relationship b/w mean, median & made) Draw the graph to represent the same. 9 4 For left skewed data -SP Mean & Median (Made The reason being most of the values are towards the left lide (tail) of the distribut, thus T the mean is towards the left i.e. small 7 Mean Fer median
The transport For right skewed date = The reason being most of the values are towards the right side(tail) of the distribut of they the mean is forwards the vigled i.e. (etge Hean) Hedian > Hede