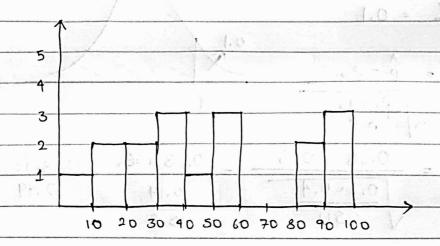


Statistics Assignment

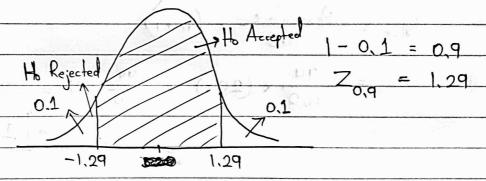
1. 10, 13, 18, 22, 27, 32, 38, 40, 45, 51, 56, 57, 88, 90, 92, 94, 99

No. of groups = 10Bin size = $\frac{100}{10}$ = 10



2. $T = 100 \quad n = 25 \quad \overline{x} = 520$

C.T = 80% $\propto = 1 - 80\% = 0.2$



Point estimate + Margin of error

Lower Fence = \frac{1}{\chi} - \frac{7}{2} \sqrt{19}

$$= 520 - 1.29 - \frac{100}{\sqrt{25}} = 520 - (.29 \times 20) = 520 - 25.8$$

= 494.2

Higher Fence = x + Za/2 To

Accept Ho Reject Ho

494.2

595,8

Ausnopea A asstalate 3. H₁ \Rightarrow 10 p₀ < = 60% n = 250 x = 170 \Rightarrow $H_1 \Rightarrow$ 10 p₀ > 60% $h_2 \Rightarrow 250$ $h_3 \Rightarrow 250$ $h_4 \Rightarrow 250$ $h_5 \Rightarrow 250$ $q_0 = 40\% = 0.4$ 0.1Test Statistic = P-Po 0.68 - 0.6 0.08 x 80. $0.08 \times 15.8 = 2.57$ 0.6×0.4 250 0.19 15.8 As, 2.57 > 0.1, Ho is accepted. Vehicle owner in ABC city is 60% or less. Percentile (n+) $=\frac{99}{100} \times (20+1) = \frac{99}{100} \times 21 = 20.8 + 1 \text{ Index}$ 5 Mode Median Right-ske wed Left-skewed

Mean Median Mode

Mean > Median > Mode