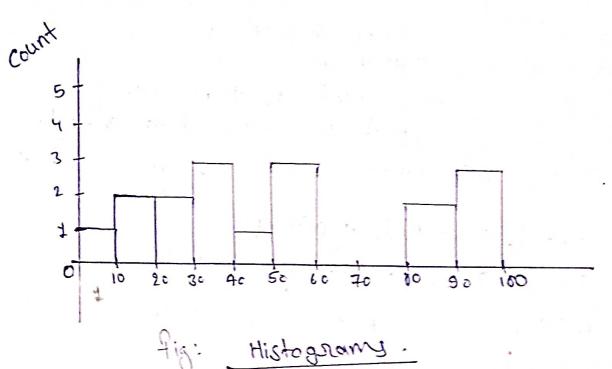
Quit) Plot a Histogram, 10/13/18, 22/27/22/38, 40/45, 51, 56, 57, 188/30/32/34/39 Soll bin size = 10

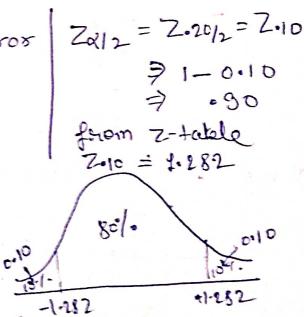


Our 2) In a quant test of the Off CAT Exam, the population Std us known to be 100. A sample of 25 tests taken how a mean of 590. Construct an 80%. CI about the mean.

· x= 520

$$= \left(590 \pm 1.782 \times 100 \atop 125\right)$$

by taking (+) 8:47. EI is = 545.64



49436 520 545.67

Suman Saini) A cor company believes that the percentages of residents in city ABC that owns a vehicle is 60% or leng. A Jales manger disagree with this. He conducts a hypothesis desting surveying 250 residents and found that 170 Overs ponded yes to owning a vechicle.

a) State the Null Hypothesis

b) At 10% significance devel, is there enough evidence its support the idea that wehicle owneship of company ADC is 60% orlens? Step 1) Ho -> Po < 60%, Null Hypotherity H, -> Po 760%. Alternate Hypothesis Po=0.6 Qo=1-Po=1-0.6=0.4 x = 170; n = 250 $\hat{p} = \frac{K170}{50} = 0.68$ Step 2 d=0:10 CI=90:/., x=1-(f step3 2-test with propostion $2 = \frac{p - p_{c-}}{2} = \frac{0.68 - 0.60}{2} = 2.582$ 10.60×0.40 + task lest. step y decision aboundary 01=0 1-0.10 = 0.00 from z-tuble + 4.282 notich is 1-28d 2-582 Null hypothers is rejected Steps) conclusion: Ho (Null Hypotheis is rejected) no enough evidence to support the idea

Just what is the value of the 99 percentile? 2,2,3,4,5,5,5,6,7,8,8,8,8,8,8,9,9,1,0,11,1.1(12) 20th Index Value = <u>Percentile</u> (n+1) In = sample duta set $=\frac{99}{100}(20+1)=20.79$ Index ≈ 20 80 value is 12 Quis In left & sight skewed data, what is the ordationship between mean, median. 2 mode? Droves the groph to represent the dame.? Woglan median mean Jeff-Skewed symetrical-skened ·Right - Skewed Mode > Median > Mean Mean > Median > Mode Eg. Life than of Human-being. Eg. Weather Distribution