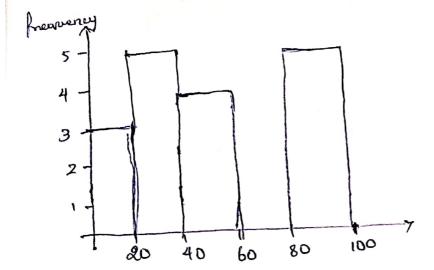
O Assignment:

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

Bins = 5

Bin Size = 20

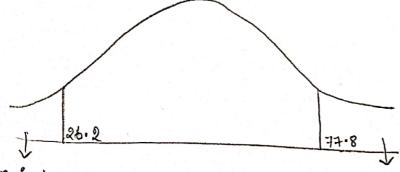


@ In a aquant test of the CAT estars, the Population standard deviation is renown to be 100. A sample of 25 tests taken has a mean of 520. Construct an 80% cl about the mean

CI = Point estimate + Mosegin of error

Lower fence:

higher fence:



Reject will Hypothesis

Reject null hypothesis

Assignment belives that the percentage of A cost company belives that the percentage of residents in city ABC that owns a Verhille is to! or less. A sales Manager disagrees with this. He conducts a hypothesis testing swereying 250 residents and found that 170 responded yes to awaing a realides.

- a) state Null and alternate hypothesis
- b) At 10°1. Significance level, is there enough evidence to support the idea that vehicle ownership in aty ABC is 60%, or less?

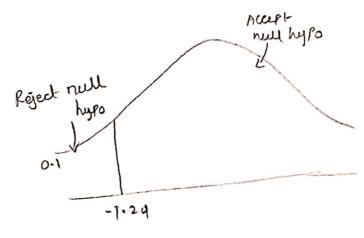
a) Ho! Po & 60%. \$ 60%.

H, ? Po & booth > 60%. Roject null hupo

b) n:250 x:170

$$\hat{p}: \frac{x}{n} = \frac{170}{250} = 0.68$$

aro = 1-Po = 1-0.p=0.4



2 test with proportion

$$Z = \frac{\hat{p} - P_0}{\sqrt{\frac{P_0 \circ v_0}{n}}} = \frac{2.582}{\sqrt{\frac{0.6 \times 0.9}{250}}} = \frac{2.582}{250}$$

:. 2.582 7-1.29 { Réject rull hypothesis }

@ What is the Value of the 99 Percentile? 2,2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,11,11,12

$$\frac{99}{100} \times (20+1) \Rightarrow \frac{99}{100} \times 21$$

= 20 Index that is 12/

Din left and right - skewed clotha, what is the relationship between mean, Median and mode?

Draw the graph to represent the same

Left - Skw:

Mean is loss than the medican, and they once

both less than the Mode.

Nedion Mode

Right Sicen: -

Hearn in the longest While Median and Mude is the

