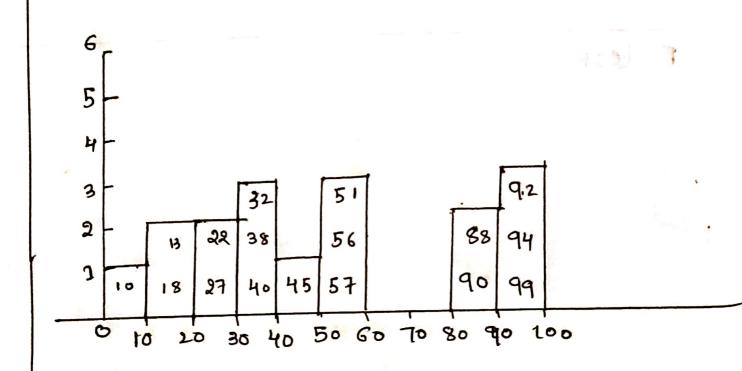


assignment -1

011)

plot a histogram

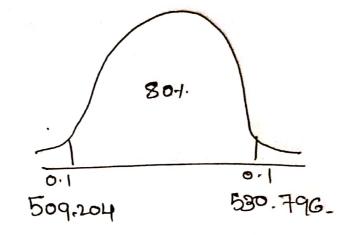
10, 13, 18, 22, 27, 32, 38, 40, 45, 51 56, 57, 88, 90, 92, 94, 99.



92)

In a guant test of cAT Exam, the population SD is known to be 100 a Sample of 25-test taken has mean 520 construct 80-1-CI about mean.

Given data



 $c_1 = point$ estimale + morogin propor = $\overline{x} \pm 2 \cdot \frac{\alpha}{12} \cdot \frac{5}{\sqrt{n}}$.

assignment- 3 [10th July] [name: Derraj. sabnis.

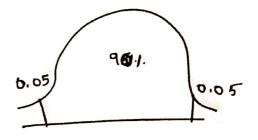
— a car company believs that the percentage 93) of residents in city ABC that owns a vehicle is 60.1 or less. A sales manager assagrees with this. He conducts a hypothesis testing surveying 250 residents and found that 170 responded yes to owning a vehicle.

- (a) state the null & Alternate hypothesis.
- (b) At 10.1. significance level is there enough evidence to support the iclea that were vehicle ownership in ABC is 60% or 1855.

MD

(i) Null hypothesis

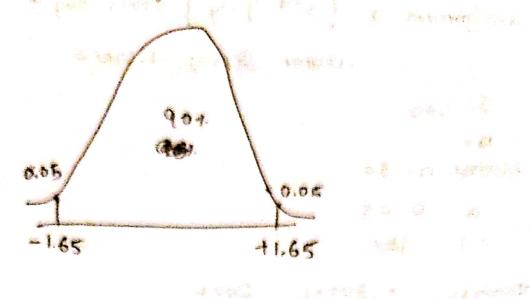
$$\hat{p} = \frac{\chi}{0} = \frac{170}{250} = 0.68.$$



By referoing 2 table we get.

25 core : 1.85





$$= \frac{\hat{p} - p_0}{\sqrt{\frac{p_0 \times q_0}{p_0}}} = \frac{0.68 - 0.6}{\sqrt{\frac{0.6 \times 0.4}{250}}}$$

April mark

were of a constant which

$$\frac{0.08}{\sqrt{\frac{0.24}{250}}} = \frac{0.08}{0.03} = 2.6$$

tru nous hypothesis referred.

94) Value of appercentite 99 percentiles

9- 82.2, 3, 4, 5, 5, 5, 6, 7, 8, 8, 8, 8, 8, 9, 9, 10

99-1. = 990 x (20+1).

100
= 20.79.

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