(2) In a Quant test of the CAT Fram, the population should deviation is fanous to be 100.

A sample of 25 deals taken has a mean of 500. Construct an 80% C.I about the mean.

30 40 50 60 70 80 90 100. bin = 10.

Given
Population 8-0 = 100.

Sample = 25.

Simple mean : 520.

C-1 : 801.

Solution !-7 80% 0 = 100 0.1 n = 25 × = 520 520 CT : 80% Sprificant Value: 1- C I. - 1 - 8 ov. = 0-2 d=0.2. Point Estimate I margin of Ever. 2 + 7 x/2 5 >> Z 0.2 - Z 0.1 = 1.28 Lower force : ne - 20/2 on = 520 - 1.28 (100) NUI Hypothania = 520 - 1.28 (20) * 494.4/1. Pajeth Higher Some = Te + 2x/2 of 494.4 : 520 + 1.28 (Tas). . 520 + 1-28 (20). = 545.61.

A car believes that the paramage of allgams in city ABC that owns a vehicle is 60% or less. A sales manager disagraes with this. He conducted a hypothesis testing levery of 250 residence & found that 170 Residents responded yes to owning a vehicle.

(a) Shake the null and Alkertake hypothesis.

(b) At a (0.1. Significance level, is there enough swidence to support the sidea that whiche owner in ABC city is for (or) less.

Bolution !-

Gilvenis

µ = 60%

n = 250;

x = 170.

d = 10% CI= 1- d.

[d=0.1] CT: 1-0.1

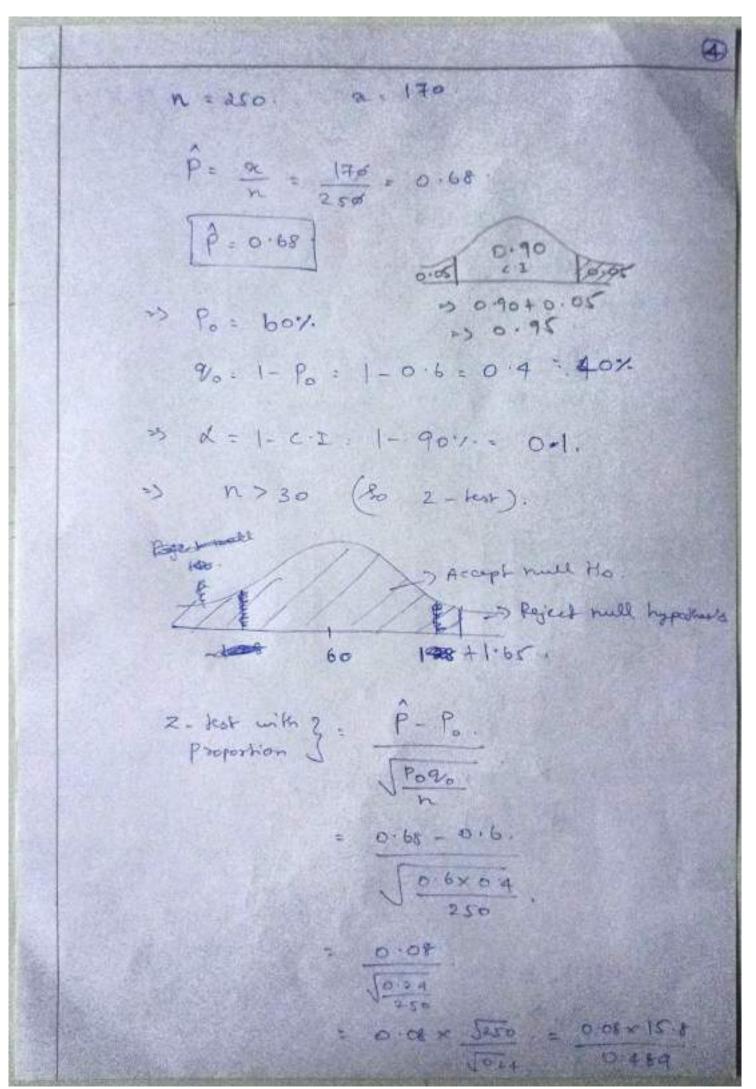
C-1 - 0 -9.

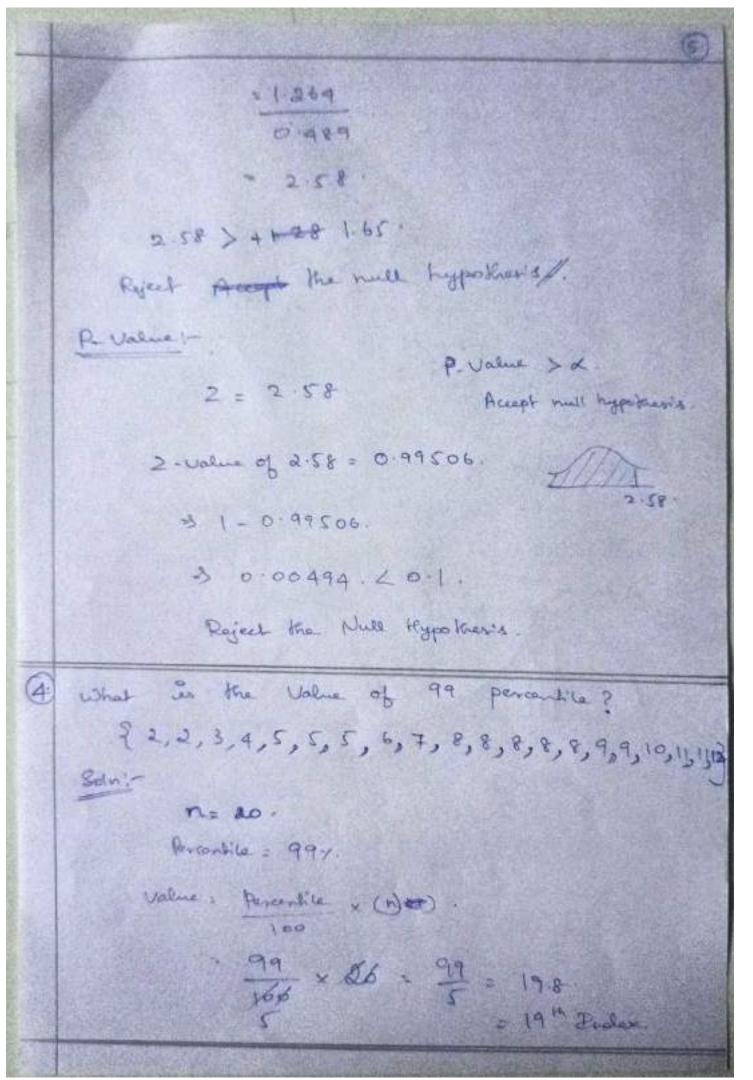
C.T = 90%

Step-1:-

Ho ≤ 60%. { much thypothesis }.

Ho > 60%. { Allernate thypothesis }





In hoft & Right - Showed data, what is the relation between mean, median and made ? Draw graph to represent the same. If the distribution of date is skewed to the left, the mean is less than the median, which is offen less than the mode. If the dishibution of date is thewed to the right, the mode is often less than the median, which is less than Dishibution is normal mean = made = median] Distribution is left showed [Hear & Median & Mode] Dishibution is Right thered | Man > Median > Made] prode The (Portive) plean metion de make -- Mean Maan -Negative Right Showed Normal Distribution (days showed) (portive).