

exil In a quant test of the CAT Example to population standard deviation is known to be 200. A sankle of 25 tests taken has a mean of 520. Construct an 8000 CI about the mean?

1001-

And: - given

OF= INIB

6= 00

-

m= 25 X=520

01

C. I = 80%.

of the

=> q= 1-C.1

where d= significant value

= 1-0.80

x = 00.90.2

=> \(\bar{x} + \text{Zu/2 G}\)

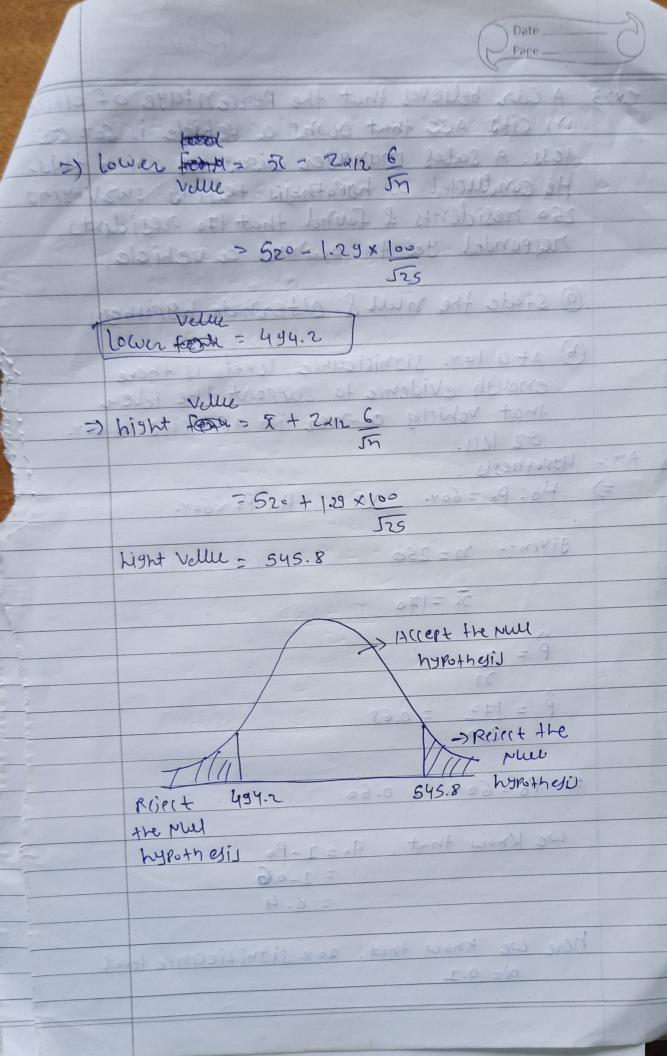
-- (\*)

ZxIz Valle, we know that,

=) 20.2 = 20.1 = 1.29

(: I -0.1 = 0.9 this value see in 2-table)

-1.29 +1.29



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ex:3 A car believes that the percentage of citize in city ABC that owns a vehicle is Gor. or 1055. A sales manager disagrees with this. He conducted a hopothesis testing swavesing 250 residents & found that 170 residents responded yes to owning a vehicle.

@ State the nul & alternate hypothyis

lower forth = 494.2 (B) At a loy. significance level, is there enough evidence to support the idea that vehicle owner in ABC city is Gov. or less.

A3: Hypothesis:

=> Ho: Po = Gor, evs & + His Po < Gor.

91 ven: n= 250 - 8,212 = 2000 tiend

50 = 170

ACCEPT THE MULL

P = 170 = 0.68

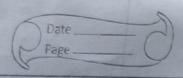
941- +125P-

=> PO = 60 1 = 0.60 STED +1908

We know that, 90= I-Po 110 11+13/4 = 1-0.6

= 0.4

here we know that, 20 y. significance level Q= 0.1

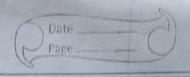


## test statistic under Ho,

LONG 3

$$Z_{+ab} = 1.28$$
 (::  $1-\alpha = 1-0.00$ 

So Zcal & S Ztab So we Reject Ho.



ex:-5 in left & Right - Skewed data, What is the relationship between megh, median & mode.

prale the graph to represent the same.

AH :-

=> Positive Skew (left) skewed)

nedian

wedn

Positive Skew

Positive skew is mean smedian, mode.

=) Negative skew (Right-Skewed)

median

median

mode

TRACT

regative skew

Negative skew is mean x median x mode.

=)

mean = median = mode

symmetrical distribution