

$$mean = 872 = 51.29$$

2. Quis In a quant test of the CAT exam, the population standard deviation is known as 100. A sample of 25 tests taken has a mean of 520 construct on 80% 61 about the mean.

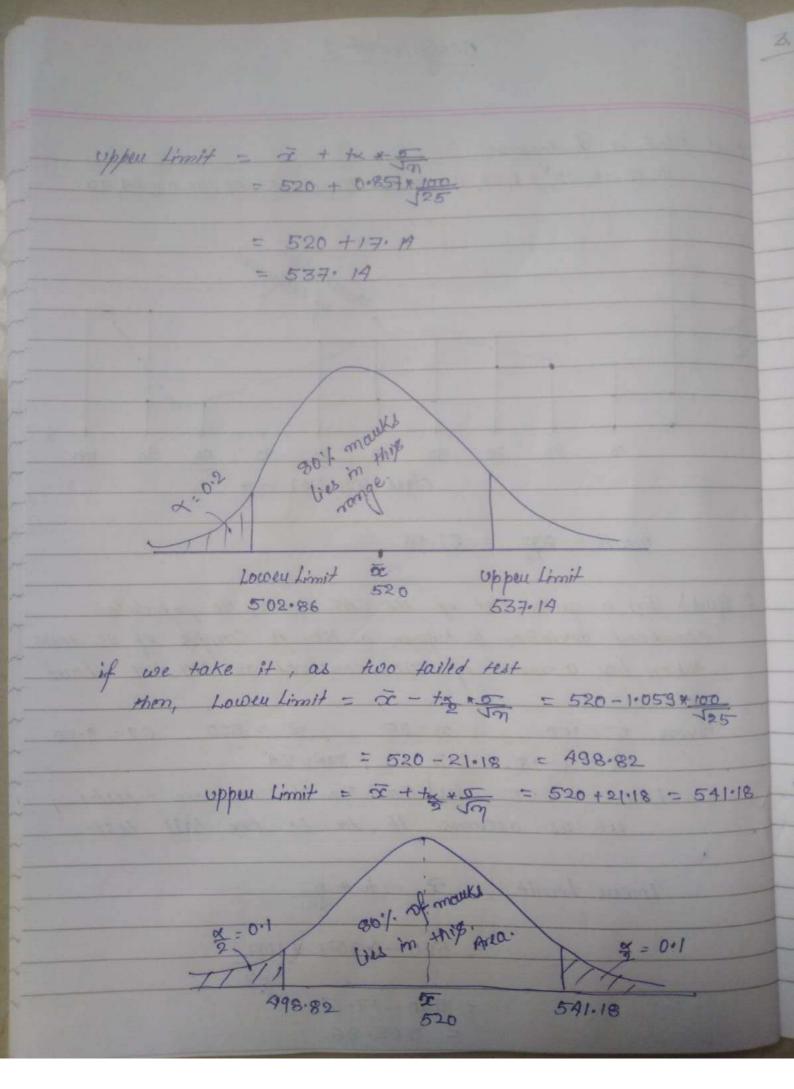
Given, $\sigma = 100$, $\eta = 25$, $\bar{x} = 520$ CI = 0.80

× 2 1-08 = 0.2 , Dof=24

here, n = 25, less than 30, Lo coe use t-test. Let us assume it, to be one tail test

Lower Limit = \$\frac{1}{\infty} - \frac{1}{\infty}

= 520 - 17.14



3. Olus A cay company believes that the 1/ of citizens in the sales monagen disagrees with this He conducted a hypothicis testing surveying 250 residents and found 170 residents responded yes to owning a vehicle. (a) state the Null & alternate hypothesis. (b) At a 10% significance level, 13 there arrange evidence to support the Idea that vehicle owner in ABC city is low Mull hypothesis - Ho - No & 60% = P = 0.6, 9 = 0.4
Alternate hypothesis - H, - N, 7 S, 7 60%. m= 250, 170 responded yes -: Po = fraction of responded yes = 170 = 0.68 0.68-0.6 = 0.08 * 250 \[0.6 * 0.4 \\ 250
\] Zistokistal = Po-Pi Jegy Zstabistica/ = 2.582 de ontesponding value 128

rejected -1.28 His is one tailed Accepted Ho Zistahkhical evidence that vehicle owner in ABC city is less

Ques 4) 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 gg (n+1), index volue 99 peucentile = = 20.79 index value 50, 12 is 99 peucentile of data given. 5. Quest In Left and Right - skewed data, what is the relationship between mean, median and mode? Traw the graph to represent the same. mean median mode graph mode 7 median 7 mean Box - ploty

