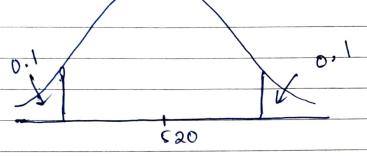
Day 1 - State 9, 10, 13, 18, 22, 27, 32, 38, 40, 45, 51, 56, 57, 88, 90 bing = 50 winam bin size = 20 20

Statistics Day-5 assignment

In the Quant test of CAT erram, the population standard devication is known to be 100. A sample of 25 test takers has a mean of 520. Construct a 80% CI about the mean.

Solf $\sigma = 100$, n = 25, $\bar{n} = 520$, cI = 80%. Significance value 1 - 8% = 0.02% 1 - 0.80 = 0.2



Parameter = Point estimate ± margin of error = x ± Zd/2 (Th)

$$Z_{01/2} = \frac{Z_{0.2}}{2} - Z_{0.1} = 0.53983$$

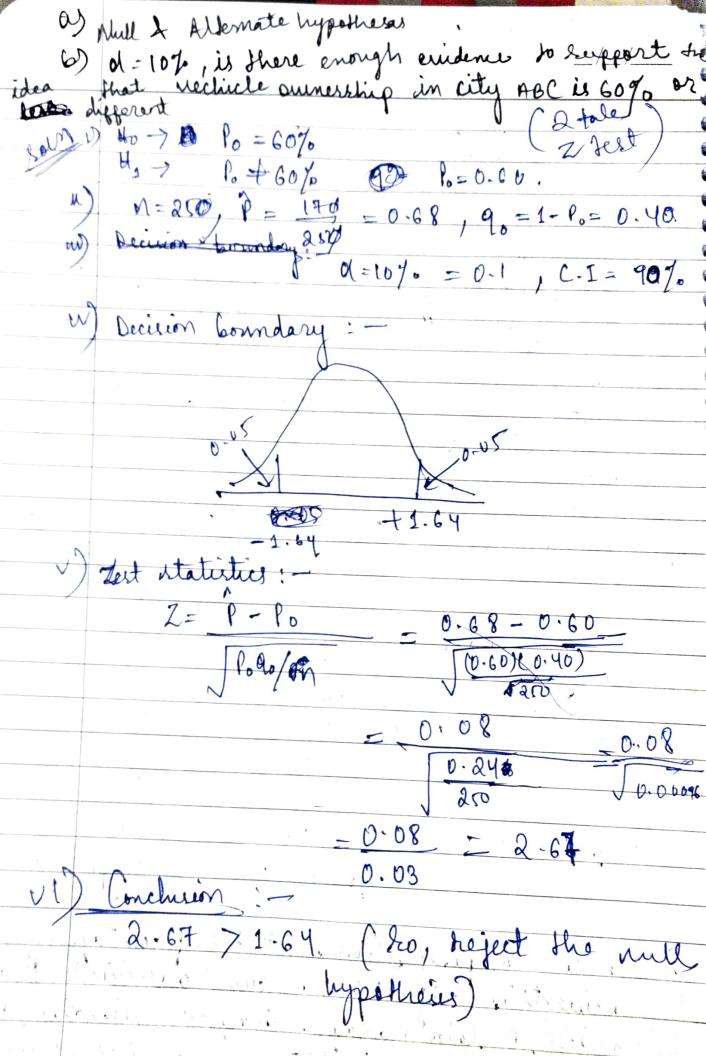
Louis fence = 2 - Zd/2 To

$$= 520 - 0.53983 \left(\frac{100}{5}\right)$$

Higherfence = 1 + Zal2 (m)

530.7966 509-2034

A car company believe that the percentage of heidents in city ABC that owns a reclicle is 6% or tous. A hales manager disagress with this, the and finds that 170 reported yes to owning a recheck



What is the value of 99 percentile ? 2,2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,11,11 Value = Percentile * n = (19.5) th inder 7 Value = 99 x 26 = 12

Detrucer mean, median and mode? Represent with graph Left - skeued: -In left-skeured data, the mean is less than the median ond the median is a less than the mode. It is often referred to as negative show.

Mean < Median < Mode Creaph: - (Example :-). (Megatine Skew)

Right skewed! -In tright-skeured data, the mode is less than median ound median is less than mean. It is often referred to as positive skew. Mode 7 Median 7 Mean Craph: - (anomple) (Positive skew).