## Assignment

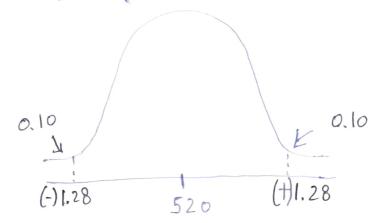
9) In the Quant Test of CAT exam, the Population S.D. is known to be 100. A sample of 25 test taker has a mean of 520. Construct a 80% C.I. about Means?

$$n = 25$$

$$\overline{\chi} = 520$$

Point Estimate + Margin of Orlor

$$\overline{\chi}$$
 +  $\overline{Z}$   $\sqrt{2}$   $\sqrt{\frac{5}{n}}$ 



Significance Value =  $1 - C. I. \neq 1 - 85.1. = 1 - 0.80 = 0.20$  $Z_{4} = \frac{S.V.}{3} \neq 1 - 0.10 = 0.900 \Rightarrow 1.28 (Z score ground off)$ 

Lower Fench 
$$Z - Z4_2 \int_{N}^{\infty}$$
 520 - 1.28  $\left(\frac{100}{\sqrt{25}}\right)$ 

Upper Fench
$$\overline{2} + Z y_2 = \overline{m}$$
 $520+1.28 \left(\frac{100}{125}\right)$ 
 $52.0+1.28 \times 220$ 

