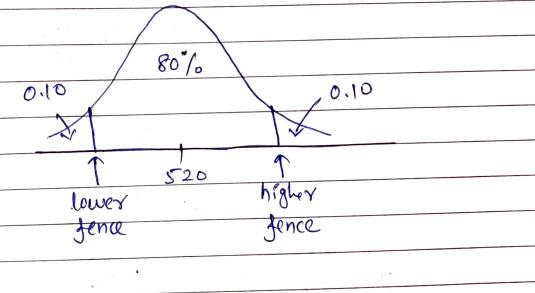
(Assignment Quats Page

In a quant test of the CAT exam, the population Standard deviation is known to be 100. A sample of 25 tests taken has a mean of 520. Construct an 80% CI about the moan.

Sdn Giren: 5=100 n=25 = 520 C.I = 80%

0

$$\Rightarrow \alpha = 1 - 0.80 = 0.20$$



 $\frac{2}{\sqrt{2}} = \frac{2}{0.20/2}$

In 2-table, search for 1-0.10 = 0.90 √1.2 → 0.90

Page_ Lower Fence = $\bar{\chi} - Z_{\chi}$ = 520-1.29 × 100 = 520 - 1.29 × 20 = 520 - 25.8 = 494.2 Higher Fence = n+ Zxx 5 = 520 + 1.29× 100 = 520 + 1.29×20 = 520 + 25.8 = 545.8 ... Range of C.I = [494.2 545,8] 494.2 545.8