Assignment - 4

Q:1In the Cluart test of CAT exam, the population stardard deviation is known to be 100. A sample of 25 test taken has a mean of 520. Construct a 80% CI about the mean?

$$=$$
 $=$ 100, $n = 25$, $X = 520$, $CI = 80\%$

$$= 3520 - (1.29) [+00] 20$$

 $= 3520 - 25.8$
 $= 3494.2$

Higher fence
$$\Rightarrow \overline{X} + Z_{\frac{1}{2}} \left[\frac{1}{\sqrt{100}} \right]$$

 $\Rightarrow 520 + (1.29) \left[\frac{100}{\sqrt{20}} \right]$
 $\Rightarrow 520 + (1.29) \left[\frac{100}{8} \right] 20$
 $\Rightarrow 520 + 25.8$
 $\Rightarrow 545.8$

