populations of is known to be 100. A sample of 25 tests taken how a mean of 520.

Construct an 80% CI about the mean

$$\rightarrow$$
 $\sigma = 100, \bar{x} = 520, \bar{n} = 25$

Point Estimatet Margin Error

Higher Fence = x+25

$$\frac{70.29}{2} = 0.10$$

$$= 1-0.10$$

$$= 0.90$$

$$= 1.29$$

Lower fence =
$$\frac{7}{2} - \frac{7}{2} \frac{0}{\sqrt{n}}$$

= $520 - 129 \left(\frac{100}{\sqrt{2}}\right)$
= $520 - 1.29 (20)$
= 494.2
Higher fence = $\frac{7}{2} + \frac{7}{2} \frac{0}{\sqrt{n}}$
= $520 + 1.29 \left(\frac{100}{\sqrt{15}}\right)$
= $520 + 1.29 (20)$
= 545.8
(494.2 \longleftrightarrow 545.8)
with 80% C.I. about the mean.

CS CamScanner