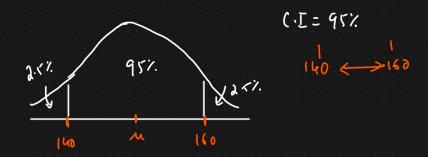


Confidence Intervals and Margin of Error

4=160



Point Estimate: A value of any statistics that estimates the Value of an unknown population Parameter is called Point Estimate

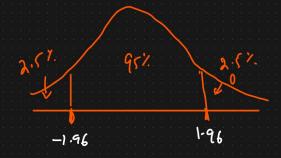
Confidence Interval

We construct a Confidence interval to help estimate.
What the actual value of the unknown population mean

Point Estimate + Margin Of Error

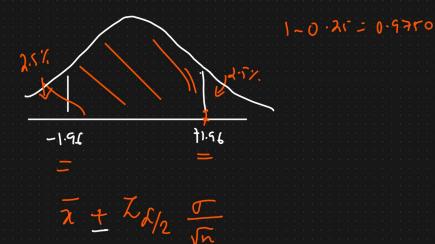
$$\frac{1}{2}$$
 $\frac{1}{2}$
 $\frac{1}{2}$
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Zhst



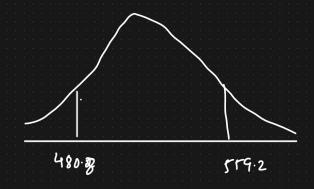
1) On the Verbal section of CAT Fram, the standard deviation is Known to be 100. A sample of 25 test takens has a micen of 520. Construct a 95% (I about the mean?

Pm) 7 = 520 0 = 100 n=25 (:I=0.95 L=0.05



dower (
$$\overline{1} = 520 - (1.96) * \frac{100}{\sqrt{45}} = 480.8$$

Migher (I = 520 + (1.96) $\neq \frac{100}{\sqrt{45}} = 559.2$



I am 95% Confident that the mean CAT score loss between 480.8 and 559.2