

Confidence Interval Worksheet

SETUP (find these values in the problem):

1- Starting Standard Deviation: $\rightarrow \sigma =$

2- Confidence Level: $\rightarrow c =$ \leftarrow (as decimal)

3- Sample Mean: $\rightarrow \bar{x} =$

4- Sample Size: $\rightarrow n =$

CALCULATIONS

1 - Find NEW Standard Deviation: $\rightarrow \frac{\sigma}{\sqrt{n}} = \frac{\text{}}{\sqrt{\text{}}}$

2- Find "Excluded Area": $\rightarrow \frac{1-c}{2} = \frac{1-\text{}}{2}$

3- Left Endpoint = $\rightarrow \text{NORM.INV}(\text{Excluded Area}, \bar{x}, \text{NEW SD})$

4- Right Endpoint = $\rightarrow \text{NORM.INV}(\overbrace{\text{Excluded Area} + c}^{\text{red bracket}}, \bar{x}, \text{NEW SD})$