Assignment: -> Sample Variance : -> $s^{2} = \underbrace{\langle x_{i} = \overline{x} \rangle^{2}}_{i=1}$ $n-1 \rightarrow \text{why } n-1$

OI why use (n-1) in sample Variance formulae?

And Taking the entire population and

Calculating its parameters like population mean,

Population Standard deviation is accurate.

But when the population is large enough,

then doing the stady of the entire large enough. then doing the study on the entire population

So we take the sample size (of size) n < N (size of population) and calculating the sample mean and sample variance but in Sample variance formulae instead of n we divide by (n-1) which is called Bessel's correction.

De What is Bessel's correction refers to the "n-1" a found in several formulas, including the sample variance and sample standard deviations U2 What is Bessel's Correction? formilas.

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Is why & Bessel's correction is used?

Ins. This correction is made to correct for the facts that these sample statistics tend to underestimate the actual parameters found in the population

Q4. What is Degree of Freedom?

And the Degrees of freedom in a a statistical calculation represent how many values in volved in a calculation have the freedom to vary.