Ex: A researcher has collected the following data values:

   5   13   13   1

Comment on any concerns you have about whether the data should be used for a confidence interval.

Formulas for sample mean and variance:

$$\bar{X} = \frac{1}{n}\sum_{i=1}^{n} X_i \qquad\qquad S^2 = \frac{1}{n-1}\sum_{i=1}^{n}(X_i - \bar{X})^2$$