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INDIVIDUAL WORK: Submit one pdf file to the assignment.

1. In a paragraph, explain in general the purpose and meaning of a confidence interval.

A confidence interval represents the expected proportion of intervals that will contain the parameter if a large number of different samples is obtained. The interpretation of a confidence interval indicates that $(1-\alpha) * 100\%$ of all simple random samples of size (n) from the population whose parameter is unknown will result in an interval that contains the parameter.

To me in general terms, the confidence interval means that the interval includes the unknown parameter for x percentage of all of the samples. You are basically saying that if you ran a test 100 times and you had a 95% level of confidence that in 95 of those tests you would see your unknown parameter.