A sample of $N = 16$ people from a population with mean equal to 50 is given a treatment. After the treatment, we find a sample mean of $\overline{X} = 51$ with $SS = 296$.

- Compute a 95% confidence interval for μ, the population mean score of the treatment group.
- Perform a hypothesis test to determine whether the treatment results in a significant increase over the mean score for the general population.

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Consider the following sample of scores: $6, 1, 4, 2, 3, 4, 6, 6$

- Compute a 95% confidence interval for μ, the mean of the population from which this sample was obtained.
- Perform a hypothesis test to determine whether $\mu > 3$.

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