A sample of $N = 16$ individuals is selected from a population with mean 70 and given a treatment. After treatment, the sample mean is found to be $\overline{X} = 73.6$ with $SS = 960$. Let μ represent the population mean of the treatment group.

- Perform a hypothesis test to determine whether $\mu > 70$.

- Perform a hypothesis test to determine whether $\mu \neq 70$.

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 $\mu > 3$.