

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 $\bar{X} = 73.6$ 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 $\mu \neq 70$.

