Fact Sheet – One Mean Tests

Identification

- The one mean test compares the unknown mean of a population to a particular value.
- The summary of the sample will include the mean, standard deviation, and size, or you could have a set of data instead.
- The data are quantitative (numerical) not qualitative (categorical).

Differences

Step 1: Use the symbol μ instead of the symbol p.

Step 3: "One Mean Test"

Step 4: The test statistic is t, not z.

Conditions: $20n \leq N$, Normally Distributed (with data), No Outliers (with data)

StatCrunch Directions

With Summary: Stat > T Statistics > One Sample > Summary

- Enter sample data, click Next.
- Enter value of μ_0, select alternative hypothesis.

With Data:

- Create QQ Plot. Verify that the graph is linear & correlation is greater than 0.9.
- Create Boxplot. Verify that there are no outliers.
- Stat > T Statistics > One Sample > Data
- Select column containing the data, click Next.
- Enter value of μ_0, select alternative hypothesis.