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Practice module 3

Statistical Outputs:

Summary of descriptive stats:

A screenshot of a computer screen

Description automatically generated

One sample t-testing:

A screenshot of a computer code

Description automatically generated

Interpretation:

p-value: The p-value is significantly lower than the usual significance level of 0.05, at less than 2.2e-16.

Confidence level: With 95% confidence, we can say that the mean lies between, 7.67 and 8.06.

Conclusion: We can reject the null hypothesis that the mean lung capacity is equal to 5.

Proportion:

A screenshot of a computer code

Description automatically generated

Conclusion : The p-value is less than 2.2e-16, which is well below the typical significance level of 0.05. Therefore, we can reject the null hypothesis that the proportion of smokers is equal to 33%.

Confidence level: With 95% confidence we can say that the true proportion of smokers lies between 8.52% and 13.14%.