

COLLABORATIVE STATISTICS: SOLUTION SHEETS: F DISTRIBUTION AND ONE-WAY ANOVA*

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Abstract

This module provides a solution sheet for use with the F Distribution and One-Way ANOVA chapter of the Collaborative Statistics text book/collection.

Class Time:

Name:

- a. H_o :
- b. H_a :
- c. $df(n) = \underline{\hspace{2cm}}$ $df(d) = \underline{\hspace{2cm}}$
- d. State the distribution to use for the test.
- e. What is the test statistic?
- f. What is the p -value?
- g. Use the previous information to sketch a picture of this situation. **Clearly** label and scale the horizontal axis and shade the region(s) corresponding to the p -value.

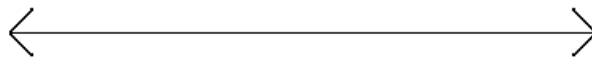


Figure 1

- h. Indicate the correct decision (“reject” or “do not reject” the null hypothesis) and write appropriate conclusions, using **complete sentences**.
- i. Alpha:

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- ii.** Decision:
- iii.** Reason for decision:
- iv.** Conclusion: