

SOLUTION SHEET: F Distribution and ANOVA

a. H_0 : _____

b. H_a : _____

c. $df(n) =$ _____ $df(d) =$ _____

d. State the distribution to use for the test. _____

e. Test Statistic: $F =$ _____

f. p -value = _____ In 1 – 2 complete sentences, explain what the p -value means for this problem.

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.

h. Indicate the correct decision (“reject” or “do not reject” the null hypothesis) and write appropriate conclusions, using **COMPLETE SENTENCES**.

alpha

decision

reason for decision

Conclusion: _____

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