

Name _____

Student No. _____

STA 442/1008 Quiz 4

1. (2 Points) What is the median house age? The answer is a single number.

2. (8 points) You created a binary variable that is house age at or below the median versus house age above the median. Using this variable, we want to know if older houses tend to use more energy with the vent damper inactive.
 - a. What is the value of the test statistic? The answer is a number.

 - b. What proportion of the variation in the dependent variable is explained by the independent variable? The answer is a number.

 - c. What is the p-value? The answer is a number.

 - d. Are the results statistically significant at the 0.05 level? Answer Yes or No.

 - e. If the results are significant, describe the results in plain, non-statistical language. If the results are not significant, write "No conclusion."

Please hand in both your log and your list file with this paper. Write your name on both printouts.