**Version: K Statistician: Victor Forslund**

**Directions:**

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**Questions:**

1. **[3pts]** Identify what type of variable each of the following is: age, sumDays, and fishing.

2. **[5pts]\*** Perform a thorough EDA for sumDays.

3. **[2pts]\*** Perform a thorough EDA for educat.

4. **[5pts]\*** Perform a thorough EDA for the relationship between sumDays and age.

5a. **[2pts]\*** Interpret the slope of the linear regression that you performed.

b. **[2pts]** Predict the sumDays for a respondent with a median age.

c. **[2pts]** What is the residual if sumDays is 35 and age is 80.

d. **[2pts]** What proportion of total variability in sumDays is explained by knowing the age of the respondent?

6. **[15pts]** Test at the 5% level that the distribution of individuals into the time spent fishing categories differs between those whose property is and is not their primary residence

7. **[15 or 17 pts]** Test at the 5% level that the mean value of the house differs between those whose property is and is not their primary residence.

8. **[8 pts]\*** Describe the importance of statistics (as a field of study or a collection of methods). Among other things make sure you describe the two major goals of statistics, identify at least three major concepts or ideas of statistics, and identify how some of the methods that you have learned this semester illustrate or are related to why you think statistics is important.

**Version: K Statistician: Kira Immordino**

**Directions:**

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4. **[5pts]\*** Perform a thorough EDA for the relationship between sumDays and age.

5a. **[2pts]\*** Interpret the slope of the linear regression that you performed.

b. **[2pts]** Predict the sumDays for a respondent with a median age.

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d. **[2pts]** What proportion of total variability in sumDays is explained by knowing the age of the respondent?

6. **[15pts]** Test at the 5% level that the distribution of individuals into the time spent fishing categories differs between those whose property is and is not their primary residence

7. **[15 or 17 pts]** Test at the 5% level that the mean value of the house differs between those whose property is and is not their primary residence.

8. **[8 pts]\*** Describe the importance of statistics (as a field of study or a collection of methods). Among other things make sure you describe the two major goals of statistics, identify at least three major concepts or ideas of statistics, and identify how some of the methods that you have learned this semester illustrate or are related to why you think statistics is important.

**Version: K Statistician: Thyme Masters**

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2. **[5pts]\*** Perform a thorough EDA for sumDays.

3. **[2pts]\*** Perform a thorough EDA for educat.

4. **[5pts]\*** Perform a thorough EDA for the relationship between sumDays and age.

5a. **[2pts]\*** Interpret the slope of the linear regression that you performed.

b. **[2pts]** Predict the sumDays for a respondent with a median age.

c. **[2pts]** What is the residual if sumDays is 35 and age is 80.

d. **[2pts]** What proportion of total variability in sumDays is explained by knowing the age of the respondent?

6. **[15pts]** Test at the 5% level that the distribution of individuals into the time spent fishing categories differs between those whose property is and is not their primary residence

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**Version: K Statistician: Kyle Pouncy**

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8. **[8 pts]\*** Describe the importance of statistics (as a field of study or a collection of methods). Among other things make sure you describe the two major goals of statistics, identify at least three major concepts or ideas of statistics, and identify how some of the methods that you have learned this semester illustrate or are related to why you think statistics is important.

**Version: K Statistician: Josey Schanen**

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**Version: K Statistician: Allie Wisman**

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4. **[5pts]\*** Perform a thorough EDA for the relationship between sumDays and age.

5a. **[2pts]\*** Interpret the slope of the linear regression that you performed.

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**Version: K Statistician: William Kendall**

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**Version: K Statistician: Erick Marchessault**

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**Version: K Statistician: Joshua Repaal**

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**Version: K Statistician: Abigail Spiers**

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**Version: K Statistician: Jeremiah Wilson**

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**Version: K Statistician: Frank Wroblewski**

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