**BF[2] - Decomposition**

**Type in your score here 🡪 \_\_\_25\_ out of 25 points possible**

1. (5 points) Ponder/Reflect Exercise – Reflect on what you have learned from this portion of the class. Examples of what you can do are: a brief outline of material covered, insights you gained from class or personal study, or items you feel that you need to follow up or work on. (3-5 sentences)

I learned from this portion of class how the interaction is helped to determine significance. Sometimes the interaction is very significant and sometimes it isn’t. This why we do 2-way ANOVA tests to help us determine what is causing our significant readings.

2. (4 points) #A1 on p. 207

Total Food Eaten by Hornworms in Relation to Body Weight

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3. (4 points) #B3 on p. 214 (for part b only, also determine the number of treatment levels, and the experimental unit)

Factor 1: Type A vs Type B Personality based on an exam

Factor 2: Gender (Male vs. Female)

Response: Time (in seconds) spent attending to negative information

Interaction: The difference in time spent attending to negative information due to type of personality is different due to gender (at least slightly based on the graph).

Treatment Levels: Four

Experimental Units: A person (perhaps a student)

4. (4 points) #B5 on p. 215 (for part b only, also determine the number of treatment levels, and the experimental unit)

Factor 1: Type of Dandelion (A,B,C,D)

Factor 2: Type of Habitat (1,2,3)

Response: Average number of plants of each type

Interaction: The difference in the average number of plants of each type of dandelion is different due to different habitat.

Treatment Levels: Twelve

Experimental Units: Habitat

5. (8 points) Decompose, determine the degrees of freedom and create and ANOVA table for the wear data using wear2 as the response variable.



On excel sheet