**BF[2] – Decomposition Key**

**Type in your score here 🡪 \_\_\_\_ 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)

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)

**b) 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)

**b) 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.





