Name_____ Date_____

LAB 1E: What's the Relationship?
Response Sheet

Directions: Record your responses to the lab questions in the spaces provided.

Finding patterns in data.

Where are the variables?

- **How many variables were used to create this plot? Which variables were used and how were they used?**

Multiple variable plots

scatterplots

Creating scatterplots

Scatterplots in action

- **Do snacks that have more `protein` also have more `calories`? Why do you think that?**

- **What happens if you swap the `protein` and `calories` variables in your code? Does the relationship between the variables change?**

- **Does the relationship between `protein` and `calories` change when the snack is either `Salty` or `Sweet`? Write down the code you used to answer this question.**

Name_____ Date_____

LAB 1E: What's the Relationship?
Response Sheet

4-variable scatterplots

- **Create a scatterplot that uses these 4 variables: `sodium`, `sugar`, `cost`, `salty_sweet`.**

Multiple facets

- **How does the `healthy_level` of a `Salty` or `Sweet` snack impact the number of calories in the snack?**

On your own

- **Do healthier snacks have more or less `ingredients` than less healthy snacks?**

- **What other variables seem to be related to the number of `ingredients` of a snack? Describe their relationships.**