

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.

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4-variable scatterplots

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.