

Name: _____

Date: _____

LAB 1G: What's the FREQ? *Response Sheet*

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

Clean it up!

(1) Write and run code using the `data()` function to load the `atu_clean` data file to use in this lab.

How do we summarize categorical variables?

Frequency tables?

(2) Fill in the blanks below to answer the following: How many more *females* than *males* are there in our ATU data?

`tally(~_____, data = _____)`

2-way Frequency Tables

(3) Write and run a line of code, that's similar to how we facet plots, to obtain a tally of the number of people with physical challenges and their sex.

(4) Write down the resulting table.

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Interpreting 2-way frequency tables

(5) Does one sex seem to have a higher occurrence of physical challenges than the other? If so, which one and explain your reasoning.

Conditional Relative Frequencies

Conditional Relative Frequencies, continued

(6) Add the option format = "percent" to the first tally function. How were the percents calculated? Interpret what they mean.

On your own

(7) Describe what happens if you create a 2-way frequency table with a numerical variable and a categorical variable.

(8) How are the types of statistical investigative questions that 2-way frequency tables can answer different than 1-way frequency tables?

(9) Which sex has a higher rate of *part time employment*?