Name_____ Date_____

LAB 1F: A Diamond in the Rough
Response Sheet

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

Messy data? Get used to it

Messy data?

The American Time Use Survey

Load and go:

- **Just by viewing the data, what parts of our ATU data do you think need cleaning?**

Description of ATU Variables

New name, same old data

- **Use the example code and the variable information on the previous slide to rename the rest of the variables in `atu_dirty`.**

Next up: Strings

Numbers are words? (Sometimes)

- **Write down the variables that should be** *numeric* **but are improperly coded as** *strings* **or** *characters***.**

Changing strings into numbers

Mutating in action

- **Once you have this code working, use a similar line of code to correctly code the other** *numeric* **variables as numbers.**

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LAB 1F: A Diamond in the Rough
Response Sheet

Deciphering Categorical Variables

Factors and Levels

- **Use similar code as we used above to write down the levels for the three factors in our data.**

A level by any other name...

Allow me to explain

Finish it off!

- **Recode the categorical variable about whether the person surveyed had a physical challenge or not. The coding is currently:**
  - `"01"`: Person surveyed *did not* have a physical challenge.
  - `"02"`: Person surveyed *did* have a physical challenge.

- **Write a script that:**
  - Loads the `atu_dirty` data set
  - Cleans the data as we have in this lab
  - Saves a copy of the cleaned data

The final lines

Flex your skills

- **Use the `as.factor()` function to convert `healthy_level` into a categorical variable and re-run the `histogram` function.**

- **Recode the `healthy_level` categories and re-run the `histogram` function.**