

Political Science 202
Introduction to Political Analysis
Fall 2021: Problem Set #3

Due in Turnitin (Blackboard) on Friday, October 1 at 10am. 5 points in total. Late submissions are penalized with 1 point per 24 hours. MAKE SURE THAT YOU RECEIVED THE TURNITIN UPLOAD CONFIRMATION and SAVE THE CONFIRMATION. If you have trouble uploading to Turnitin or don't receive a confirmation, email as an attachment to your TA before the deadline. If you don't get a reply confirming that you handed it in, send it again.

1. A researcher wants to create a measure of media coverage of candidates for office. She therefore comes up a set of rules to code sentences in *New York Times* articles as either "pro" or "con" towards the candidates. She hires several students to implement these rules. She then counts the number of positive and negative statements for each candidate to assess how biased the media are towards them. Evaluate the validity and reliability of this measurement strategy.
2. Provide one example each for a nominal, ordinal, and interval-level variable (different one's than we discussed in class and section). Make sure to give variable labels as well as variable values.
3. Table 1 below shows the distribution of the "Freedom House" measure of democracy from 2020, which categorizes countries as "free", "partly free", or "not free."
 - a. What is the level of measurement of the variable? Why?
 - b. Report all appropriate measures of the central tendency of the variable. Interpret.

Table 1: Frequency of categories in Freedom House Democracy Measure, 2020

Category	Frequency
Free	82
Partly Free	59
Not Free	54

4. Table 2 below shows the age distribution of students in PSC 202.
 - a. What is the level of measurement of the variable? Why?

- b. Report all appropriate measures of the central tendency of the variable. Interpret.

Table 2: Table of age of students in PSC 202.

Age	Frequency	Percent	Cumulative Percent
18	1	1.1	1.1
19	27	31.8	32.9
20	27	31.8	64.7
21	19	22.4	87.1
22	8	9.4	96.5
23	3	3.5	100.0