

Political Science 30, Homework #1

Due Date: Wednesday, April 23, at the **beginning** of lecture.

Note: You must complete this assignment by yourself, and may not work in groups.

- The following dataset indicates the percentage of votes cast for George Bush in the 2004 election in each state of the northeastern United States. Find the measures of central tendency (**a.** mean, **b.** median, and **c.** mode) and dispersion (**d.** variance, **e.** standard deviation, and **f.** range) **by hand** for the Bush04 variable. (You may use a calculator, but show all your work).

State	Region	bush04
Connecticut	Northeast	44
Maine	Northeast	45
Massachusetts	Northeast	37
New Hampshire	Northeast	49
New Jersey	Northeast	46
New York	Northeast	40
Pennsylvania	Northeast	48
Rhode Island	Northeast	39
Vermont	Northeast	39

- Using SPSS find the same measures of central tendency and dispersion for “bush04” in the States.sav dataset. **Print out and attach your SPSS output to your homework.**
- Using SPSS create a bar chart of “bush04”. **Print out the graph and attach it to your homework.**
- For each of the following variables:
 - Label the level of measurement. (In other words, specify if the variable is Nominal, Ordinal, or Interval/Ratio).
 - Report the most appropriate measure of central tendency.

Variable A	Variable B	Variable C
Percentage of Students	Color	Feelings toward Mint Ice-Cream
66%	White	Strongly Like
73%	Red	Like
22%	Black	Indifferent
55%	Green	Dislike
23%	Red	Strongly Dislike
98%	Yellow	
22%	Blue	

