

1. (a) For the data you just collected, what are the cases or observational units? \_\_\_\_\_  
(b) What kind of variable is “Politics” ? (Circle all that apply)  
Categorical    Binary    Quantitative  
(c) What kind of variable is “number of states visited”? (Circle all that apply)  
Categorical    Binary    Quantitative
  
2. More practice:
  - (a) the color of a Reese’s Pieces candy
    - i. Circle all that apply: Categorical    Quantitative    Binary
    - ii. Observational Unit:
    - iii. Units:
  
  - (b) the maximum historical volume (cfs - cubic feet per second) of a Montana river
    - i. Circle all that apply: Categorical    Quantitative    Binary
    - ii. Observational Unit:
    - iii. Units:
  
  - (c) the percentage of a state’s residents who are over 65 years old
    - i. Circle all that apply: Categorical    Quantitative    Binary
    - ii. Observational Unit:
    - iii. Units:
  
  - (d) whether or not an applicant for graduate school is accepted
    - i. Circle all that apply: Categorical    Quantitative    Binary
    - ii. Observational Unit:
    - iii. Units:
  
  - (e) the difference in ages (groom’s age minus bride’s age) of a wedding couple
    - i. Circle all that apply: Categorical    Quantitative    Binary
    - ii. Observational Unit:
    - iii. Units:

**PLEASE TURN OVER FOR QUESTIONS 3, 4, 5, & 6.**

3. Your instructor will have written the numbers of states visited and gender for each student in the class on the board. Using these data, construct a two-way table of counts of the number of students in your section that fall into each of the cells of the table to the right. [For example, if there were 3 females who have been to between 1 and 10 states, put a “3” in the upper left cell of the table.]

		Gender	
		Female	Male
# of States Visited	1-10		
	11-20		
	21-30		
	31-40		
	41-50		

4. In question 3, is the “Number of States Visited” variable being treated as a quantitative or categorical variable? Explain in one clear sentence.

5. Create a display to show the percentages of males and females in the “Number of States Visited” category. There is no one correct answer here - Just find a way that you think effectively displays these variables together.

6. Write a few sentences addressing whether or not the number of states visited seems to be the same or different for males and females. In other words, do males or females tend to visit more states, or is there no appreciable difference? Explain your reasoning.