STATS 60 Summer 2020: HW1

Due on Friday July 3rd at 5PM PDT on Gradescope

1) Summarizing Data

Consider the following dataset

 $\{6, 8, 7, 9, 3, 7, 7, 10, 8, 2\}$

- 1) What is the mean?
- 2) What is the median?
- 3) What is the mode?
- 4) What is the standard deviation?

2) Introduction to R

- 1) Assign the character string "10" to x and "20" to y
- 2) What happens when you run x + y? Why does this happen?
- 3) How would we treat x and y as numbers to add them?
- 4) Suppose I wanted to print the string "STATS60". I run the following code. Why do I get the following error? What should I do instead?

print(STATS60)

Error in print(STATS60) : object 'STATS60' not found

Suppose now I wanted to print the string "060". I run the following code. Why do I get the incorrect output? What should I do instead?

print(060)

[1] 60

3) R for Data

- 1) Create a vector v of the data from Part 1.
- 2) Create a histogram of v
- 3) Create a boxplot of v. What is your interpretation of this?
- 4) Write code that gives you the mean and standard deviation of v.