## 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 $v$.
