Lab 6

This lab will use a subset of the Seattle Police 911 calls data set http://math.montana.edu/ahoegh/teaching/stat408/datasets/Seattle_911_062016.csv.

```
library(tidyverse)
seattle <- read_csv('http://math.montana.edu/ahoegh/teaching/stat408/datasets/Seattle_911_062
```

Q1. (5 points)

Create a figure to address which hours of the day have the most 911 calls (using the `Event.Clearance.Date`).

Q2. (5 points)

What percentage of the 911 calls are the result of an ALARM, (using the `Initial.Type.Description`).

Q3. (10 points)

Create a figure telling a story from this dataset using the `Event.Clearance.Group` variable. Make sure to include appropriate axes, titles, and include an annotation.

When creating your figure, note that there are 40 separate groups. Consolidate these into meaningful categories.

```
unique(seattle$Event.Clearance.Group)
```

```
 [1] "TRAFFIC RELATED CALLS"
 [2] "SHOPLIFTING"
 [3] "DISTURBANCES"
 [4] "CAR PROWL"
```

```
 [5] "SUSPICIOUS CIRCUMSTANCES"
 [6] "MOTOR VEHICLE COLLISION INVESTIGATION"
 [7] "FALSE ALACAD"
 [8] "TRESPASS"
 [9] "MISCELLANEOUS MISDEMEANORS"
[10] "PROPERTY DAMAGE"
[11] "LIQUOR VIOLATIONS"
[12] "NUISANCE, MISCHIEF"
[13] "BEHAVIORAL HEALTH"
[14] "BURGLARY"
[15] "AUTO THEFTS"
[16] "HAZARDS"
[17] "NARCOTICS COMPLAINTS"
[18] "PERSON DOWN/INJURY"
[19] "ASSAULTS"
[20] "OTHER PROPERTY"
[21] "THREATS, HARASSMENT"
[22] "PERSONS - LOST, FOUND, MISSING"
[23] "ROBBERY"
[24] "LEWD CONDUCT"
[25] "PROPERTY - MISSING, FOUND"
[26] "PROSTITUTION"
[27] "FRAUD CALLS"
[28] "WEAPONS CALLS"
[29] "PROWLER"
[30] "ARREST"
[31] "ANIMAL COMPLAINTS"
[32] "BIKE"
[33] "HARBOR CALLS"
[34] "DRIVE BY (NO INJURY)"
[35] "PUBLIC GATHERINGS"
[36] "HOMICIDE"
[37] "OTHER VICE"
[38] "FAILURE TO REGISTER (SEX OFFENDER)"
[39] "VICE CALLS"
[40] "RECKLESS BURNING"
```