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Homework 1
Statistics for Linguistics

Part 1

1. (1/3) + (1/4)
2. (2^10) + 1
3. f <- 440
   1127 * log(1 + (f / 700))
4. a <- 2
b <- 4
c <- -4
(-b +sqrt(b^2 - (4 * a * c))) / (2 * a)

Part 2

Labov <- read.csv("http://wellformedness.com/courses/LING82100/Data/NYC.csv")
table(Labov)

Total: 35 (Klein's 6, Macy's 13, Saks 16)

33 + 7 + 59 + 5
12 / 104

```
[1] 104
[1] 0.1153846
```

Answer: 11.54%

Part 3

Casillas <- read.table("http://wellformedness.com/courses/LING82100/Data/VOT.tsv", header = TRUE)
print(Casillas)
quantile(Casillas$vot)

```
      0%     25%     50%     75%    100% 
-85.290 -17.975  13.825  27.365  82.860 
```

mean(Casillas[Casillas$language == "spanish",]$vot)

```
[1] -24.31306
```

sd(Casillas[Casillas$language == "english",]$vot)

```
[1] 19.86479
```