Week 8 Class

Samantha-Jo Caetano

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First let's load in the Starbucks data.

For all Pastries

Now, let's look at the mean, standard deviation and sample size of the calorie variable.

```
starbucks %>%
  summarise(
  mean_cal = mean(calories),
  sd_cal = sd(calories),
  n_{cal} = n())
## # A tibble: 1 x 3
    mean_cal sd_cal n_cal
        <dbl> <dbl> <int>
## 1
         339.
               105.
                         77
Or in base R:
xbar_cal <- mean(starbucks$calories)</pre>
s_cal <- sd(starbucks$calories)</pre>
n_cal <- length(starbucks$calories)</pre>
```

The 95% CI for mean calories is 336.1491057 to 341.5132319. Here we are assuming that n = 77 is relatively large.

For Petite Pastries only

```
starbucks_petite <- starbucks %>% filter(type == "petite")

xbar_cal_p <- mean(starbucks_petite$calories)
s_cal_p <- sd(starbucks_petite$calories)
n_cal_p <- length(starbucks_petite$calories)</pre>
```

The 95% CI for mean calories in petite pastries is 174.9775036 to 180.5780519. Here we are assuming that n = 8 is relatively small.