```
> library(tidyverse)
> library(broom)
> library(Lahman)
> Teams_small <- Teams %>%
+     filter(yearID %in% 1961:2001) %>%
+     mutate(avg_attendance = attendance/G)
> # find regression line predicting attendance from R and take slope
> Teams_small %>%
+   mutate(R_per_game = R/G) %>%
+   lm(avg_attendance ~ R_per_game, data = .) %>%
+   .$coef %>%
+   .[2]
R_per_game
  4117.029
> # find regression line predicting attendance from HR and take slope
> Teams_small %>%
+   mutate(HR_per_game = HR/G) %>%
+   lm(avg_attendance ~ HR_per_game, data = .) %>%
+   .$coef %>%
+   .[2]
HR_per_game
   8113.172
>
>
>
>
> # predict avg_attendace for every game won in a season
> Teams_small %>%
+   lm(avg_attendance ~ W, data = .) %>%
+   .$coef %>%
+   .[2]
       W
121.0901
> # predict avg_attendace if a team won 0 game in a season
> Teams_small %>%
+   lm(avg_attendance ~ W, data = .) %>%
+   .$coef %>%
+   .[1]
(Intercept)
   1129.221
>
>
>
>
> # use year to predict avg_attendance
> Teams_small %>%
+   lm(avg_attendance ~ yearID, data = .) %>%
+   .$coef %>%
+   .[2]
  yearID
244.4826
>
```