**Question 8.1**

**Describe a situation or problem from your job, everyday life, current events, etc., for which a linear regression model would be appropriate. List some (up to 5) predictors that you might use.**

I am currently training for a half marathon in March, but not doing a very good job of it. I would think that regression would be good to help me predict how much I need to train to finish the half marathon under my goal. If I used past race finish times and their associated training runs, I could create a regression model to determine my probable finish time. Predictors would include total number of training runs as well as the distance, pace, and elevation change of each of those runs. I could also tell by the coefficients what predictors (distance, pace, or elevation change) seem to have the biggest impact on my finishing time.