

Homework 8

Due: Thursday 4/16/20 by 8:30am

1. Problem 6.8 from the .pdf version of the textbook. Requires use of the **brand_preference** data that has been posted on the Homework page.
2. Problem 6.14 from the .pdf version of the textbook, parts (a)-(d). Requires use of the **grocery_retailer** data that has been posted on the Homework page.
3. Problem 6.28 from the .pdf version of the textbook. Requires use of the **CDI** data that has been posted on the Homework page. You will need to look to the textbook appendices for a description of the variables in this dataset. See page 1,367 of the .pdf version of the textbook.
4. Problem 6.29 from the .pdf version of the textbook. Requires use of the **CDI** data that has been posted on the Homework page. You will need to look to the textbook appendices for a description of the variables in this dataset. See page 1,367 of the .pdf version of the textbook. Hint: you can use the **subset** argument of the **lm** function to fit a regression model to a subset of the data. See below for an example.

```
link <- url("http://maryclare.github.io/stat525/content/homework/CDI.RData")
load(link)
close(link)
# Regress the number of hospital beds (X9) on the percent of
# the percent of the population 65 or older (X8) for geographic region 1
linmod.1 <- lm(X9~X7, # Regression model
               subset = X17 == 1, # Subset of data to fit the regression model to
               data = data) # Tell R where to look for X9, X7, and X17
```