Mini Math September 22

This week you will be working **SOLO**. You have exactly 15 minutes to finish each of the following questions. For this challenge you will be using the Lego dataset.

- 1. Visualize **and describe** the distribution for lego prices using a histogram. Draw the histogram and include your description at the bottom of this page.
- 2. Visualize the distribution of prices for lego sets with a rating of greater than 3. There is no need to draw this distribution of describe, you only need to write the code that will produce it.
- 3. Create a barplot showing the number of sets belonging to each lego theme.
- 4. Create a pairwise boxpllot comparing the prices of 'Easy' lego sets and 'Hard' lego sets. Describe how the two distributions differ.
- 5. Create a barplot for the themes that the top 100 priced lego sets belong. Describe the plot below.

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Solution:
1 ## Load Packages
2 library (ggplot2)
3 library (tidyverse)
 lego <- read.csv('lego.csv')</pre>
 ## Question 1
 hist (lego $ Price)
0 ## Question 2
 glimpse (lego)
 lego %% filter(rating>3) %% ggplot(aes(x=Price))+geom_histogram()
14 ## Question 3
 barplot(table(lego$theme))
7 ## Question 4
s easy <- lego %% filter (difficulty='Easy')
hard <- lego %>% filter(difficulty='Challenging')
boxplot (easy $ Price , hard $ Price )
22 ## Question 5
lego %% arrange(desc(Price)) %% select(theme) %% head(100) %% table() %%
      barplot()
```