XP Booster

February 16

This week you will be working **SOLO**. You have 10 minutes.

1. Mr. Merrick Writes the following code below:

```
food <- c('ice cream', 'cake', 'ice cream', 'pie', 'pie')
sum(food='cake')
```

What will be displayed in the console when the code runs?

```
Solution: 1
```

2. Consider the code below (note that 'food' contains an arbitrary number of strings):

```
food <- c('ice cream', 'cake', ..., 'ice cream', 'pie', 'pie')
```

Write a script that calculates the proportion of items in food that are 'cake'.

```
Solution:

sum(food == 'cake')/length(food)
```

3. The dataset 'birds.csv' is in the current working directory. Write the code that will load the dataset into R below.

```
Solution:

| birds <- read.csv('birds.csv')
```

4. The birds dataset is tidy with 3 variables: Type, Weight, and Height, and 12 observations. Fill in what the dataset could look like below:

:		

XP Booster

March 2

This week you will be working in **Teams of Two**. You have exactly 10 minutes to finish each of the following questions. For this challenge you will be using the Pokémon dataset.

- 1. Visualize the distribution for Pokémon attack scores using a histogram (draw it) below. Be sure to include labels.
- 2. Visualize the distribution for Pokémon attack scores using a boxplot (draw it) below. Be sure to include labels.
- 3. Determine what proportion of Pokémon in the dataset are 'fire' pokémon
- 4. Determine what proportion of pokémon in the dataset are fire pokemon with attacks of less than 50.
- 5. Using a pairwise boxplot visualize the distribution for Pokémon attacks across the variable 'is_legendary' (you just need to write the code that will create the plot, not draw). Can any conclusions be drawn from this plot?