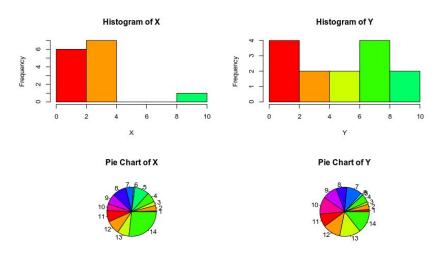
Alex Johnson

I pledge my honor that I have abided by the Stevens Honor System.

HW1

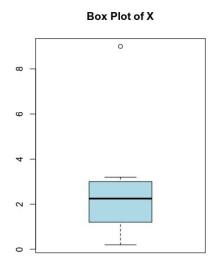
1.

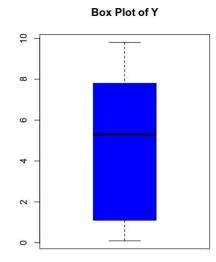


I.

- **A. X:** The data is skewed to the right with one outlier to the left. The values are between 0 and 10. The mean is 2.407 and the median is 2.25.
- **B.** Y: The data is equally distributed. The values are between 0 and 10 with no outliers. The mean is 4.87 and the median is 5.3.

II. X: Outlier around 9. Y: No outlier



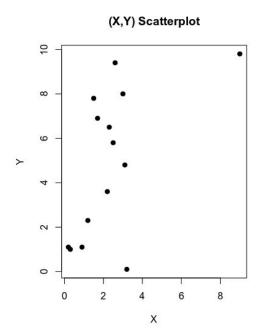


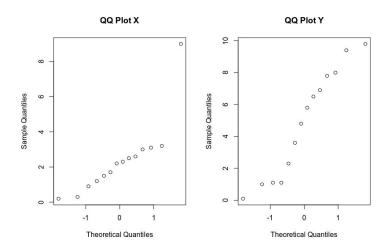
III. Correlation Coefficient: 0.5679153

- A. This means that there is a moderate correlation. And is moving in a positive direction.
- IV. Without outliers, the correlation coefficient is **0.4586256**.

VI.

V. Without the outlier, the correlation coefficient is much more accurate. The outlier was skewing the data to look like there was a greater change then there actually was.





A. With both plotted X looks to have a more normal distribution than Y. This is excluding the outlier.

2) $\leq_{i=1}^{n} (x_{i} - \frac{1}{x})^{i} = \leq_{i=1}^{n} x^{2} - n x^{2}$

 $\frac{(k_{cof})^{2}}{(x_{i}-\bar{x})^{2}} = \frac{2}{2} x_{i}^{2} + \frac{2}{2} x_{i}^{2} + \frac{2}{2} x_{i}^{2}$

 $= \sum_{i=1}^{n} x_i^2 - 2n\bar{x}^2 + n\bar{x}^2$ $= \sum_{i=1}^{n} x_i^2 - n\bar{x}^2$

for \(\frac{1}{2} \left(\gamma_{i=1}^{2} \right)^{2} \) The Same 5kgs or

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it is not in the sumation.