Statistical Question:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1) Survey data:

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2) Display your data in a dot plot:

3) Describe the center of the data by listing:

the mean\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the median\_\_\_\_\_\_\_\_\_\_\_\_ and the mode\_\_\_\_\_\_\_\_\_\_\_\_\_

4) Describe the shape of the data by listing:

any clusters \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ any outliers \_\_\_\_\_\_\_\_\_\_\_\_\_ any gaps \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Any peaks \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ any skew \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5) Describe the spread of the data by listing:

the range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the MAD\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the IQR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6) What is a reasonable scale (based on the highest and lowest values)?\_\_\_\_\_\_\_\_\_\_\_\_

7) What are reasonable intervals? Groups of \_\_\_\_\_\_\_\_\_

What 3 things must you consider when creating intervals?

a.

b.

c.

8) Organize your data into a histogram. Remember to label the axes and title the graph.

9) Now, list the 5-Number Summary of your data:

Minimum \_\_\_\_\_\_\_\_\_\_ Q1 \_\_\_\_\_\_\_\_\_\_\_ Median \_\_\_\_\_\_\_\_\_\_ Q3 \_\_\_\_\_\_\_\_\_\_\_\_ Maximum \_\_\_\_\_\_\_\_\_\_\_

10) Use the data above to create a box plot: