

Name

Customers Count

Choose one numerical data set from your survey.

Using the data table below, create a table showing the tallies of your data.

Numerical Data Table: Computing Statistics

Data Column 1	Data Column 2

Write the survey question that generated this data in the space below.

How many observations (number of surveys completed) are included?

Question 1

What is the range? Explain how you found the range.

Question 2

What is the median? Explain how you found the median.

Question 3

What is the mean, rounded to the nearest tenth? Explain how you found the mean.

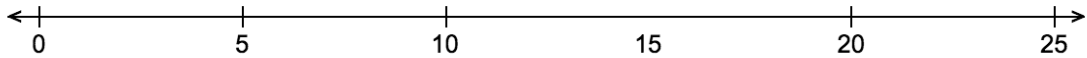
Question 4

What is the mean absolute deviation (MAD), rounded to the nearest tenth? Explain how you found the MAD.

Numerical Data Set: Graphing

Question 5: Box Plot

Create a box plot to summarize the data for the client.



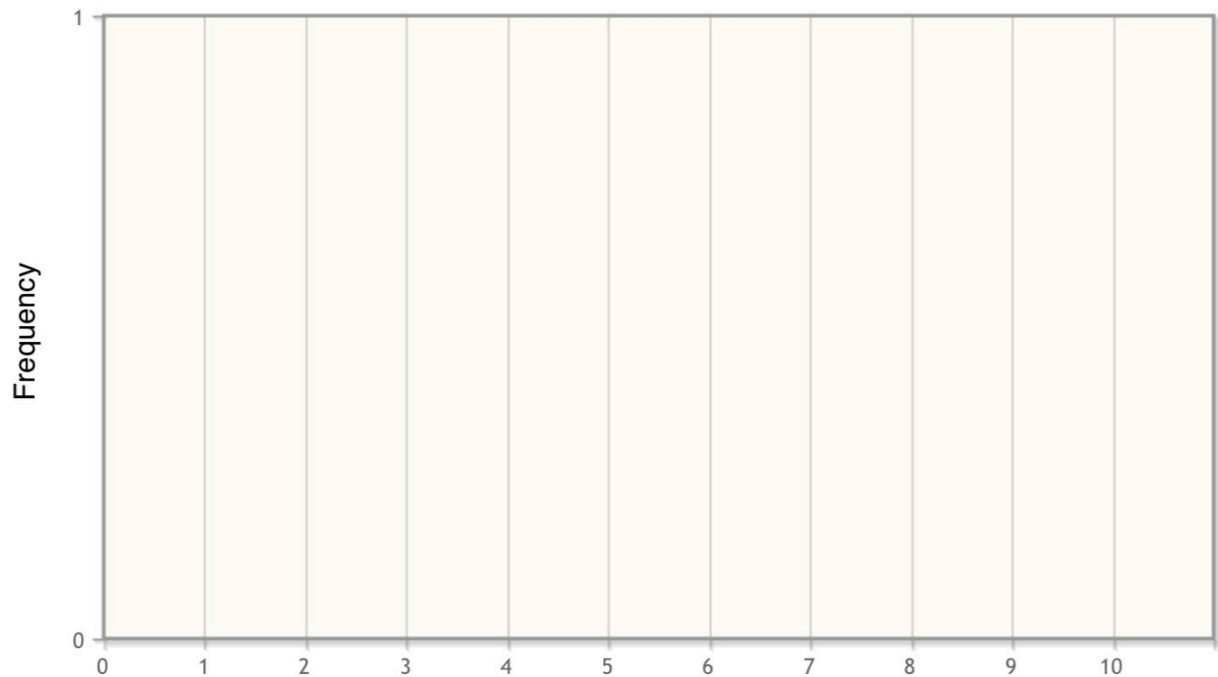
Question 6:

Write a paragraph that explains what the box plot shows.

- Explain what each part of the box plot means or tells about the data.
- Is the distribution skewed?

Question 7: Histogram

Create a histogram to summarize the data for the client.



Question 8

Write a paragraph that explains how to read the histogram.

- Explain how you chose the bin size.
- What would happen if you chose a different bin size?
- Explain what the graph tells about the data and what the shape of the graph tells about the data.

Numerical Data Set: Measures of Variability & Center

Question 9

- Write a paragraph for the client that explains what measures of variability tell about the data.
- What is variability? What do higher or lower numbers for variability mean?
- Describe two measures of variability.
- Explain the advantages or disadvantages of each measure.
- Tell the client why the measure of variability used for this data set does or does not matter.

Question 10

Write a paragraph for the client that explains what measures of center tell about the data. Explain why the client might choose one measure over the other for a particular data set. Tell the client why the measure of center used for this data set does or does not matter.

Categorical Data Set:

In the space below, write the survey question that generated this data set.

Using the data table below, create a table showing the tallies of your data.

Categorical Data Table

Data Type	Tally Results
Label 1	
Label 2	
Label 3	
Label 4	
Label 5	
Label 6	

How many observations (number of surveys completed) are included?

Question 11

Write a paragraph for the client explaining the mode and summarizing the information displayed in the graph.