**Displaying Data Review**

**Read the problem below and then explore how to analyze the data.**

Random samples of 6th graders were asked: On average, how many text messages do you send per day? Here are the results:

40, 80, 25, 40, 100, 80, 70, 0, 20, 45, 40, 30, 45, 30, 75, 40

Draw a dot plot to represent the data. Draw an “x” to represent each person’s response.

**Text Messages Spent per Day**



How many teenagers were surveyed? How do you know? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Describe the shape of the graph. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What conclusion can you draw from this dot plot? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Create a histogram to display the number how many 6th graders send 50 or more text messages per day and how many send less than 50 text messages per day.

|  |  |
| --- | --- |
| **Text Messages Sent per Day** | **Number of Responses** |
| 0-49 |  |
| 50-100 |  |

Explain the difference between a dot plot and a histogram.

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Calculate the following:

Mean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Median \_\_\_\_\_\_\_\_\_\_\_\_\_

Mode \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Range \_\_\_\_\_\_\_\_\_\_\_\_\_

Use the same data from the previous page to create a box plot. List the 5 number summaries to help you create the box plot.

Minimum \_\_\_\_\_\_\_

Lower Quartile \_\_\_\_\_\_\_

Median \_\_\_\_\_\_\_

Upper Quartile \_\_\_\_\_\_\_

Maximum \_\_\_\_\_\_\_



Why is it important to display data in different ways?

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Analyze each graph and list 2 things that each graph can show.

Dot Plot –

Histogram –

Box Plot -