Share Your Data: Statistics Performance Task

Create your own statistical study.
Follow the steps below:

1. Pose a statistical question.
2. Collect data.
3. Summarize your data.
4. Answer your statistical question.

Step 1. Pose a statistical question.

For this task, you'll need a statistical question that will result in numerical data and can be answered by surveying people you know. Write your statistical question below. Explain how you know that your question is a statistical question.

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Step 2. Collect data.

Explain how you plan to collect your data.

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Collect your data in the space below. You can use a table or list to organize your data!

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Step 3. Summarize your data.		
Find the mean.	Find the median.	Find the mode.

Look at the mean and median you found above. Which do you think is the better measure of center for your data? Explain your reasoning.

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Find the range.	Find the interquartile range.	Find the mean absolute deviation.

Look at the range, interquartile range, and mean absolute deviation you found above. Which do you think best illustrates the variability in your data? Explain your reasoning.
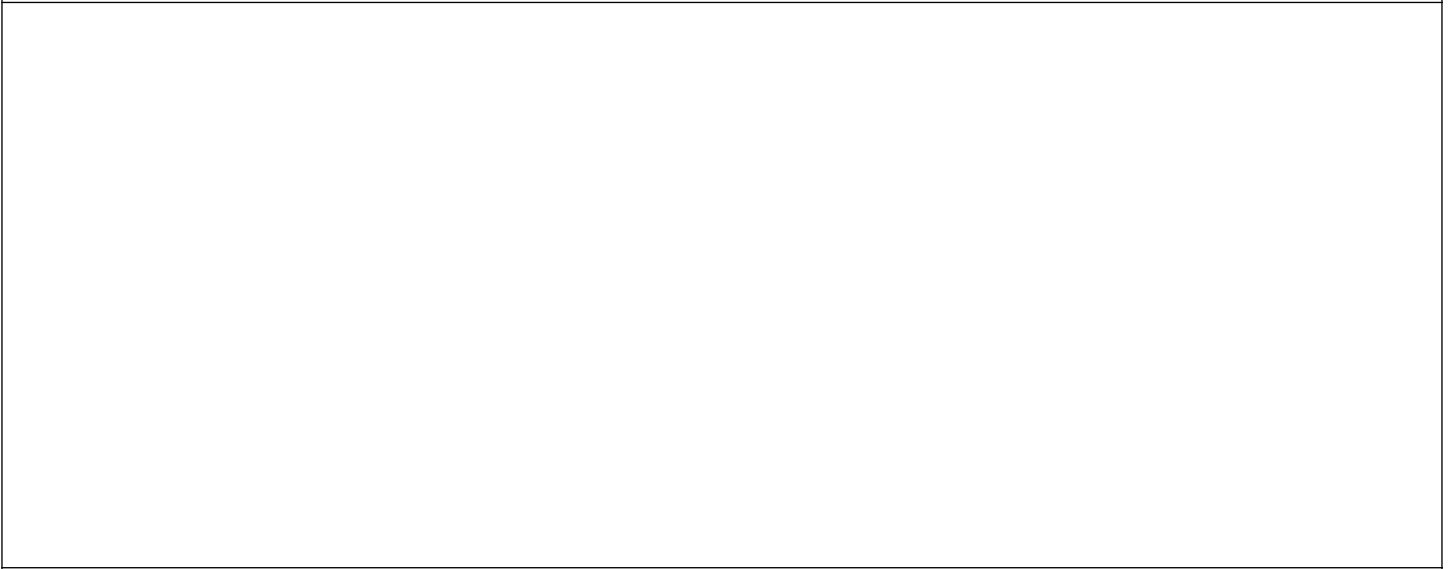
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Step 3. Summarize your data (continued).

Decide if you want to display your data using a dot plot, a histogram, or a box and whisker plot.
Create the graph you chose in the space below.

Describe your graph. What features do you see? What do those features tell you about your data?

Step 4. Answer your statistical question.

Write a summary to answer your statistical question. Include information from step 3 to support your answer.