

Data Displays Classwork

Instructions:

1. Think of a statistical question (or two) that you can ask other students to answer.
 - a. Write questions that will give a **variety** of **numerical** answers.
2. Survey AT LEAST 10 people in our class and record their answers.
3. Then, you must decide the best way to display your data.
 - a. Line Plot (Dot Plot)
 - b. Box-and-Whisker Plot
 - c. Line Graph
 - d. Bar Graph
 - e. Histogram
 - f. Double Box or Double Dot Plot
4. Draw your plot on printer paper or the back of this page. Label as appropriate and title your graph/plot using your statistical question.
5. Answer the following questions:
 - a. What population would this sample represent?
 - b. Why does your plot/graph best represent your data?
 - c. Find the mean, median, and mode of your data set.
 - d. Which measure of center best represents your data (mean or median)? Why?
 - e. Find the measure of variation (MAD or IQR) that corresponds with the measure of center you picked in part d.
 - f. Write one inference about the population based on your sample.

Select an Appropriate Display

Type of Display	Best Used to...
Bar Graph	show the number of items in specific categories
Box Plot	show measures of variation for a set of data; also useful for very large sets of data
Circle Graph	compare parts of the data to the whole
Double Bar Graph	compare two sets of categorical data
Histogram	show frequency of data divided into equal intervals
Line Graph	show change over a period of time
Line Plot	show frequency of data with a number line

Create your plot here:

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- b. Why does your plot/graph best represent your data?

- c. Find the mean, median, and mode of your data set.

- d. Which measure of center best represents your data (mean or median)? Why?

- e. Find the measure of variation (MAD or IQR) that corresponds with the measure of center you picked in part d.

- f. Write one inference about the population based on your sample.