

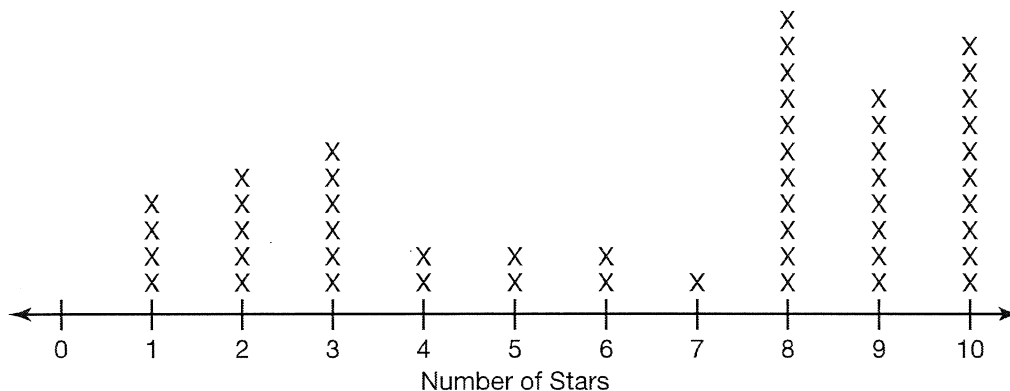
Name _____ Date _____

Which Measure Is Better?

Determining the Best Measure of Center for a Data Set

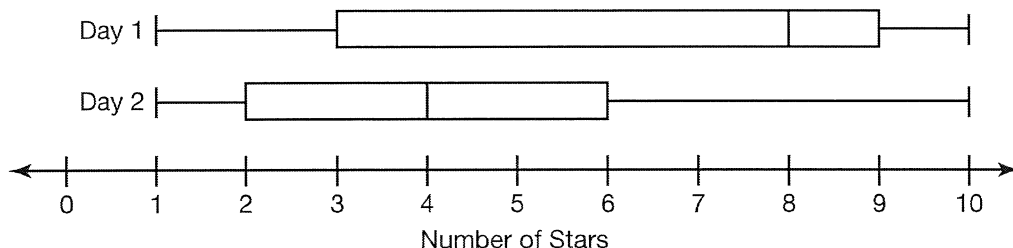
- In a constant effort to improve service, WeSellItAll.com asks its clients to rate their online shopping experience by giving it a rating from 1 star to 10 stars. A rating of 1 star represents a poor experience, and a rating of 10 stars represents an excellent experience.

The ratings for one day last month are shown in the dot plot.



- Describe the distribution of the dot plot.
- How do you think the mean and median of the data set will compare? Explain your reasoning.
- Calculate the mean and median. Explain what they mean in terms of the problem situation.
- Which measure of center do you think best represents this data? Explain your reasoning.

2. The ratings of online shopping experience for 2 separate days are shown in the box-and-whisker plots. A rating of 1 star represents a poor experience, and a rating of 10 stars represents an excellent experience.



- Compare the box-and-whisker plots. Explain what the shapes of the box-and-whisker plots say about the ratings on each day.
- Determine and compare the median for both days.
- How will the means compare to the medians on each of the days? Explain your reasoning.
- How will the means for each day compare to each other? Explain your reasoning.