

Name: _____

Measures of Center and Variability

Measures of center summarize all data points with a single number. Measures of variability summarize how much data points vary from one another.

Write **C** (center) or **V** (variability) to identify each statistical measure.

_____ median _____ range _____ mean _____ mode

Read the situation and answer the questions.

Kolton was curious about what his friends did over winter break, so he decided to ask them a series of questions. One question he asked was: How many movies did you watch over break? He organized his friends' responses into a line plot.



Identify or calculate the measures of center and variability. Show your work.

Mean.

Median.

Mode.

Range.

Name: _____

Measures of Center and Variability

Which measure of center do you think best describes the data? Why?

Which best describes the shape of the main cluster of data? *(Circle.)*

symmetric

skewed left

skewed right



Circle which would change more. *(Use the space to make new calculations if needed.)*

median **or** mean

Kolton's math teacher explains that statisticians usually try to minimize the effects of outliers by excluding them when analyzing data. If Kolton wanted to follow his teacher's advice, which data point would be the most important for Kolton to exclude?

Which best describes the shape of the main cluster of data? *(Circle.)*

mean

median

mode

range

ANSWER KEY

Measures of Center and Variability

Measures of center summarize all data points with a single number. Measures of variability summarize how much data points vary from one another.

Write **C** (center) or **V** (variability) to identify each statistical measure.

 C median

 V range

 C mean

 C mode

Preview

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ANSWER KEY

Measures of Center and Variability

Which measure of center do you think best describes the data? Why?

Median best describes the data because the distribution is skewed with outliers.

Preview

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Which best describes the shape of the main cluster of data? *(Circle.)*

mean

median

mode

range