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.

_____ mode _____ median _____ IQR
interquartile range

_____ range _____ mean

Read the situation and answer the questions.

Paisley is trying to decide which of two movies to see this weekend. She checks a few

How many reviews did Paisley collect? _____

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

Mode.

_____

Median.

_____

Mean.

_____

Name: _____

Measures of Center and Variability

Range.

_____

IQR.

_____

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

_____

Paisley comes across a media review blog whose owner absolutely hated the movie. The review writer complained that he could not give zero stars, so he reluctantly gave it one star. Paisley wonders what would happen to her calculations if she included the one-star review in her data set.

Would the mode change? _____

How would the other measures of center and variability change in general?

_____

_____

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

median **or** mean range **or** IQR

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**_____ mode

_____**C**_____ median

_____**V**_____ IQR
interquartile range

_____**V**_____ range

_____**C**_____ mean

$$\frac{5+6+7+7+8+8+8+9}{8} = \frac{58}{8} = 7.25$$

_____**7.25**_____

ANSWER KEY

Measures of Center and Variability

Range.

9 – 5 = 4

4

IQR.

Q1 = 6.5

Q2 = 7.5

Q3 = 8

8 – 6.5 = 1.5

1.5