Name: _____

Measures of Variability

Measures of variability use a single number to describe…

      a. a typical value in a data set   **b.** the spread of values in a data set

Give the range, interquartile range (IQR), and mean absolute deviation (MAD) for each data set. Use the space to show your work. Then answer the question.

1.   Eliseo collects trading cards. He selects 10 that have increased in value in five years. He records the value increase, rounded to the nearest dollar.

<div align="center">

4, 2, 2, 3, 96, 5, 9, 2, 4, 3

</div>

range: _____   **IQR:** _____   **MAD:** _____

Which measure of variability most accurately describes   _____
how similar *most* card value increases are to one another?

Measures of Variability

2. Navy regularly takes her dog to play at a small dog park. One day, she asks nearby owners their dogs' ages. She records the data on a line plot.

Preview

Please log in to download the printable version of this worksheet.
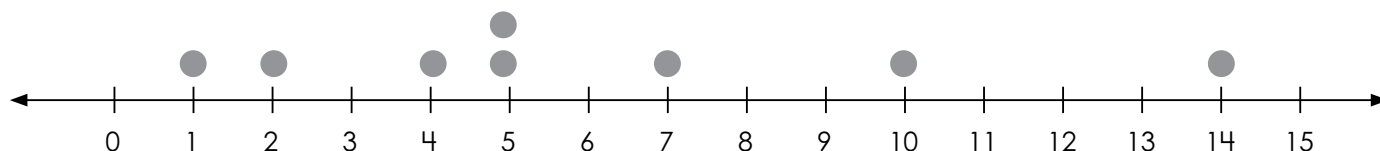
range: _____   **IQR:** _____   **MAD:** _____

Which measure is most useful for describing the difference in dog ages you might encounter at this dog park?   _____

Which measure of variability describes 50% of the data?   _____

Which two measures of variability are most affected by outliers?

_____ and _____

Which measure of variability is *always* calculated with regard to only two data points?   _____

Measures of Variability

Measures of variability use a single number to describe…

a. a typical value in a data set   **b. the spread of values in a data set**

Give the range, interquartile range (IQR), and mean absolute deviation (MAD) for each data set. Use the space to show your work. Then answer the question.

1. Eliseo collects trading cards. He selects 10 that have increased in value in five years. He records the value increase, rounded to the nearest dollar.
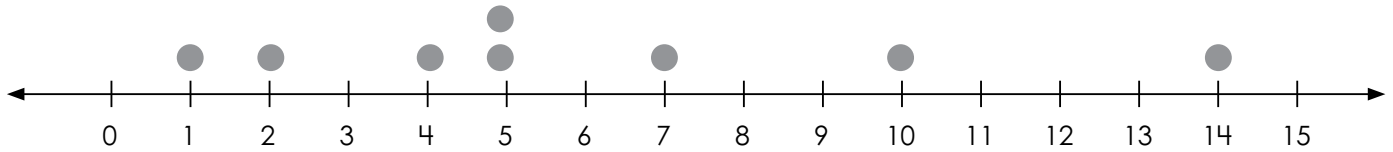
how similar *most* card value increases are to one another?

Measures of Variability

2. Navy regularly takes her dog to play at a small dog park. One day, she asks nearby owners their dogs' ages. She records the data on a line plot.

range: 14 – 1 = 13

MAD:

$$1 + 2 + 4 + 5 + 5 + 7 + 10 + 14 \qquad 48$$

Which measure of variability is *always* calculated with regard to only two data points?

range