

Math 6+: Data, Statistics, and Probability

Collect, Represent, and Analyze Data

Measures of Center and Spread (Variability)

Students

Learning Continuum Statements:

Students:

RIT 191-200:

- Interprets the mode in the context of a data set

Students:

RIT 201-210:

- Determines the median of a data set that is ordered
- Determines the mode of a data set
- Identifies the median, quartiles, extreme values, and outliers from a box plot
- Interprets the median in the context of a data set
- Interprets the mode in the context of a data set

Students:

RIT 211-220:

- Defines the mode
- Describes how the mean is calculated
- Describes how the median is calculated
- Determines the mean of a data set
- Determines the median of a data set that is not ordered
- Determines the median of a data set that is ordered
- Determines the mode of a data set
- Determines the range of a data set
- Identifies the median, quartiles, extreme values, and outliers from a box plot
- Interprets the median in the context of a data set
- Interprets the mode in the context of a data set

Students:

RIT 221-230:

- Defines the median
- Describes how the median is calculated
- Determines a missing value in a data set when the mean is known
- Determines the mean of a data set
- Determines the median of a data set that is not ordered
- Determines the median of a data set that is ordered
- Determines the mode of a data set
- Determines the range from a stem-and-leaf plot
- Determines the range of a data set
- Identifies the median, quartiles, extreme values, and outliers from a box plot

Students:**RIT 231-240:**

- Compares the median and variability of related data sets presented in box plots
- Determines a missing value in a data set when the mean is known
- Determines how the measures of center are affected with the addition or deletion of a data value, including outliers
- Determines the mean of a data set
- Determines the median from a stem-and-leaf plot
- Determines the median of a data set that is not ordered
- Determines the mode from a stem-and-leaf plot
- Determines the range of a data set
- Explains why the mean and median differ in a single data set
- Identifies the median, quartiles, extreme values, and outliers from a box plot

Students:**RIT 241-250:**

- Compares the means and medians of related data sets represented in histograms
- Compares the medians of related data sets represented numerically and in a line or dot plot
- Determines a missing value in a data set when the mean is known
- Determines how the measures of center are affected with the addition or deletion of a data value, including outliers
- Determines the median of a data set that is not ordered
- Determines the median value of a variable from a scatter plot
- Determines the range of a data set
- Explains why the mean and median differ in a single data set

Students:**RIT 251-260:**

- Determines a missing value in a data set when the mean is known
- Determines how the measures of center are affected with the addition or deletion of a data value, including outliers

Students:**RIT 261-270:**

- Determines a missing value in a data set when the mean is known
- Determines the mean from a frequency table

Students:**RIT 271-280:**

- Compares the variability of related data sets using the mean absolute deviation