

# Math DesCartes: Data Analysis, Probability and Statistics

## Skills: Statistical Measurements

Students:	DesCartes Skills: <small>(Highlight the skills related to your chosen standard/concept)</small>
	<b>RIT 251-260:</b> <ul style="list-style-type: none"> <li>Solves complex problems involving mean</li> <li>Computes and compares mean, median, mode, and range in simple examples to demonstrate that they may differ for a given set of data</li> <li>Evaluates how adding data to a set of data affects the measures of center</li> <li>Uses the regression line method to make predictions</li> </ul>
	<b>RIT 241-250:</b> <ul style="list-style-type: none"> <li>Determines the mean, median, and/or mode of a set of data</li> <li>Determines the range of a complex set of data</li> <li>Predicts from an analysis of data and statistical measures</li> </ul>
	<b>RIT 231-240:</b> <ul style="list-style-type: none"> <li>Determines the mean of a complex set of data (e.g., fractions, integers, many data points)</li> <li>Determines the median from a complex set of data (e.g., not in order, many data points)</li> <li>Estimates the mean from a set of data</li> <li>Determines the range of a complex set of data</li> <li>Solves problems with missing data when the mean is known</li> <li>Estimates line of best fit to make predictions</li> <li>Identifies outliers on a data display (e.g., uses interquartile range to identify outliers on a box-and-whisker plot)</li> <li>Predicts from an analysis of data and statistical measures</li> </ul>
	<b>RIT 221-230:</b> <ul style="list-style-type: none"> <li>Determines the average (mean) of a simple set of data</li> <li>Determines the middle value (median) from a simple set of data</li> <li>Determines the mean of a complex set of data (e.g., fractions, integers, many data points)</li> <li>Determines the mode of a set of data</li> <li>Estimates the mean from a set of data</li> <li>Solves simple problems involving mean</li> <li>Explains rationale for determining the mean, median, or mode of a set of data</li> <li>Solves problems with missing data when the mean is known</li> </ul>
	<b>RIT 211-220:</b> <ul style="list-style-type: none"> <li>Determines the average (mean) of a simple set of data</li> <li>Solves simple problems involving mean</li> </ul>

**Lesson Title:**

**Standard/Concept for All:**

**For Students Ready for a Challenge:**

Lesson/Activity:

Resources:

Means of Assessment:

**For Most Students:**

Lesson/Activity:

Resources:

Means of Assessment:

**For Students Needing Extra Support:**

Lesson/Activity:

Resources:

Means of Assessment:

**Closure/Summary for All:**

