



Mathematics Grade 7 Statistics and Probability (SP)							
SP7.1 I can demonstrate an understanding of the measures of central tendency and range for sets of data. [C, CN, PS, R, T]	I can explain what mean, median, mode, and range are.	Given a list of numbers, I can determine the mean, median, mode, and range of the data.	Given a problem involving a set of data, I can explain which measure of central tendency would be most appropriate to use, and defend my position.	I am able to solve and create complex word problems that involve measures of central tendency.			
	I can explain what an outlier is.	<ul> <li>Given a list of numbers, I can identify any outliers and explain why I included or excluded them.</li> </ul>	I am able to explain an outlier's effect on a set of data.	I can decide whether outliers need to be included in a list of data, and justify my decision.			

Comments





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Outcome	1 - Beginning The student is having difficulty demonstrating an understanding of the concept.	2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4- Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.		
SP7.2 Demonstrate an understanding of circle graphs. [C, CN, PS, R, T, V]	<ul> <li>With help, I can identify some the common attributes of circle graphs, including:         <ul> <li>title, label or legend;</li> <li>sum of the central angles</li> <li>data reported as a percent of the total, sum of the percents being equal to 100%.</li> </ul> </li> </ul>	I can identify several the common attributes of circle graphs, including:     title, label or legend;     sum of the central angles     data reported as a percent of the total, sum of the percents being equal to 100%.	I can identify all the common attributes of circle graphs, including:     title, label or legend;     sum of the central angles     data reported as a percent of the total, sum of the percents being equal to 100%.	I can compare the appearance and content of circle graphs in a variety of print and electronic media.		
Comments	With help, I can create and label with some accuracy a circle graph to display a set of data.	I can create and label with some accuracy a circle graph to display a set of data.	I can create and accurately label a circle graph to display a set of data.	I can compare the appropriate use of the circle graphs to the use of other types of graphs (e.g. bar graphs, doublebar graphs, line graphs, and graphs of discrete data).		

Comments





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SP7.3  Demonstrate an understanding of theoretical and experimental probabilities for two independent events where the combined sample space has 36 or fewer elements.	I am able to explain what the word "outcome" means.	I am able to provide at least one of the possible outcomes of two independent events.  (Ex. Flipping a coin and pulling one of four different coloured marbles out of a bag.)	I can create a table or a tree diagram to show the sample space for the all of the outcomes of two independent events.	I can solve problems     based on the sample     space of at least two     independent events.			
[C, ME, PS R, T]	I am able to describe     what theoretical     probability and     experimental     probability mean.	I can make a list of all of the possible outcomes of two independent events (with 8 or fewer outcomes), as well as a list of the actual outcomes for completing the experiment 8 times.	In an experiment with two independent events and 36 or fewer outcomes, I can determine the theoretical AND experimental probability, AND I will be able to compare the results.	I can create and conduct my own probability experiment AND provide a detailed analysis of the results.			
Comments:							