


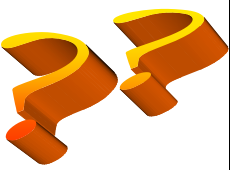




INTEGRATED MATH 2 - KEY OBJECTIVES

STATISTICS & PROBABILITY

<u>STATISTICS</u>	<u>PROBABILITY</u>
<p>WHAT:</p> <p>Calculate Statistical Measures:</p> <ul style="list-style-type: none"> ○ Calculate measures of central tendency (mean, median, mode) for discrete data, by hand or by using the calculator. ○ Calculate measures of spread, including the range and interquartile range. ○ Identify the lower and upper quartiles of a set of data, by hand or by using the calculator. <p>Represent and Interpret Data:</p> <ul style="list-style-type: none"> ○ Represent and interpret data using bar graphs. ○ Represent and interpret data using stem-and-leaf plots. ○ Represent and interpret data using histograms. ○ Represent and interpret data using cumulative frequency graphs. ○ Represent and interpret data using box-and-whisker plots. <p>WHY:</p> <p>How does an understanding of statistics help you to interpret what you read and hear?</p> <div style="text-align: right;">  </div> <p>How does statistics influence your perceptions of the world?</p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>How can you use statistics to make decisions?</p> </div> <div style="text-align: center;">  </div> </div>	<p>WHAT:</p> <p>Calculate Probabilities:</p> <ul style="list-style-type: none"> ○ Use the results of an experiment to calculate observed probabilities. ○ Use tabled data to calculate probabilities ○ Use Venn diagrams, tree diagrams, lists and grids to represent outcomes of combined events. ○ Calculate probabilities of single and compound events. ○ Construct tree diagrams to represent outcomes involving sampling with and without replacement, and use these diagrams to calculate probabilities. ○ Distinguish between mutually exclusive and non-mutually exclusive events. ○ Solve problems involving conditional probability. <p>WHY:</p> <p>How can we use math to help us make wise choices?</p> <div style="text-align: right;">  </div> <p>How does knowing the likelihood of an event effect our day-to-day lives?</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>