Integrated Math 2 - Key Objectives

Descriptive Statistics

WHAT:

Represent and Interpret Data:

- Represent and interpret data using bar graphs.
- Represent and interpret data using stem-and-leaf plots and frequency distribution tables for both discrete and continuous data
- Represent and interpret data using frequency histograms and frequency polygons.
- Represent and interpret data using cumulative frequency graphs.
- Represent and interpret data using box-and-whisker plots.
- Use visual representations of data to make observations, make conclusions and ask questions about the data and its representation.
- Make conclusions & observation s about data or about the context of the data when presented with a variety of data representations
- Be aware that data representations could be presented in such a manner as to inform, but also to misinform!!

Calculate Statistical Measures:

- Calculate measures of central tendency (mean, median, mode) for discrete data, by hand or by using the calculator.
- Estimate measures of central tendency (mean, median, mode) for discrete data, when presented frequency histograms, frequency tables or cumulative frequency distributions.
- Calculate measures of central tendency (mean, median, mode) for continuous data, by hand or by using the calculator.
- Estimate measures of central tendency (mean, median, mode) for discrete data, when presented frequency histograms, frequency tables or cumulative frequency distributions.
- Calculate as well as estimating measures of spread, including the range and interquartile range, given that the data could be represented in a variety of ways (list of data, frequency tables, grouped data, cumulative frequency graph)
- Identify the lower and upper quartiles of a set of data, by hand or by using the calculator, given that the data could be represented in a variety of ways (list of data, frequency tables, grouped data, cumulative frequency graph)

WHY:

How does an understanding of statistics help you to interpret what you read and hear?

How does statistics influence your perceptions of the world?

How can you use statistics to make decisions?