Mathematics

Brunswick School Department Applied Business Math B Unit 2: Business Analysis and Technologies

Essential	 Understanding of data analysis is important for success in the business world.
Understandings	 Successful use of technology being the modern business improve
onderstandings	- Successial use of technology helps the modern business improve
	promability.
	How does one measure central tendency?
	What are the basic concepts of probability?
Essential	How does one construct and interpret bar and line graphs?
Questions	How does one construct and interpret circle and rectangle graphs?
Quoonono	 How do statistics help quide business decisions?
	 What technologies are useful for the modern husiness?
	what technologies are useful for the modern business?
_	Mean, median, mode and range are used to describe data sets.
Essential	Probability can be calculated mathematically and experimentally.
Knowledge	Graphs are visual interpretations of real world data?
_	 Using technology to your advantage is important for the modern
	husiness
	- <u>Terms</u> .
	o mean, median, mode, range, consumer price index, initation,
Vocabulary	unemployment rate, hardware, software, e-business, web
	hosting
	 Calculate mean, median, mode and range.
Essential	 Determine probability of simple events.
Skills	Interpret and make various types of graph.
	 Calculate rates of inflation
	 Colculate the easts of huving or leasing computer equipment
	 Calculate the costs of buying of leasing computer equipment.

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	A. Number
	Real Number
	A1.Students know how to represent and use real numbers.
	a. Use the concept of nth root.
	 Estimate the value(s) of roots and use technology to
	approximate them.
	 c. Compute using laws of exponents.
	d. Multiply and divide numbers expressed in scientific notation.
	e. Understand that some equations do not have real solutions
	and that there exist other number systems to allow for
	solutions to these equations.
	B. Data
	Data Analysis
	B2.Students understand correlation and cause and effect.
	a. Recognize when correlation has been confused with cause
Polatod	b Croate and interpret scatter plots and estimate correlation
Maine Learning	and lines of best fit
Results	c. Recognize positive and negative correlations based on data
	from a table or scatter plot.
	d. Estimate the strength of correlation based on a scatter plot.
	B3.Students understand and know how to describe distributions
	and find and use descriptive statistics for a set of data.
	a. Find and apply range, quartiles, mean absolute deviation,
	and standard deviation (using technology) of a set of data.
	b. Interpret, give examples of, and describe key differences
	among different types of distributions: uniform, normal, and
	skewed.
	c. For the same mean of normal distributions, use the standard
	deviation for a group of observations to establish 90%, 95%,
	or 99% confidence intervals.
	B4.Students understand that the purpose of random sampling is to
	reduce bias when creating a representative sample for a set of
	data.
	a. Describe and account for the difference between sample
	statistics and statistics describing the distribution of the
	entire population.
	b. Recognize that sample statistics produce estimates for the
	alstitution of an entire population and recognize that larger sample sizes will produce more reliable estimates
	sample sizes will produce more reliable estimates.
	c Apply methods of creating random samples and recognize

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Sample Lessons And Activities	 Select and summarize information from a graph from your local newspaper. Create and evaluation tool to use for making decisions about purchasing computer equipment and services.
Sample Classroom Assessment Methods	 Homework Quizzes Chapter Test
Sample Resources	 <u>Publications:</u> <u>Business Math</u>