Mathematics

Brunswick School Department Applied Business Math A Unit 4: Spend Wisely

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	 Many purchases also include a sales tax.
	 Sales slips are receipts.
Essential	 Unit prices help shoppers compare prices.
Understandings	 Renting an item may be an alternative to buying the item.
_	 To connect your home computer to the internet you will need an
	Internet Service Provider.
	What is sales tax?
	How is sales tax calculated?
	How are sales slip totals calculated?
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Essential	Why are unit prices used?
Questions	 How are unit prices calculated?
	How does one compare prices?
	How does one compare rental options?
	How does one compare renting vs. buying?
	 What are the different options provided by an Internet Service
	Provider?
	 Sales tax is a percentage of the price of an item and is added to the
	cost of an item at the time of sale
	 Some items are non-taxable.
	caree stipe are assured by stroppers to verify parenasse and prices,
5	and for record-keeping.
Essential	 Unit prices help shoppers compare prices of similar items and
Knowledge	identify the lowest-priced items.
	 Renting an item that is not used often or is only needed for a short
	period of time may be the appropriate alternative to buying the item.
	For items that are used on a regular basis, it may be less expensive
	to buy the item than to rent it.
	 Internet Service Providers allow you to connect your home
	computer to the internet.
	 There are many different options and costs for Internet Service.
	Terms:
	o assessed value, bodily injury, closing costs, collision,
Va a aless la me	comprehensive damage, depreciation, down payment,
Vocabulary	homeowners insurance, lease, manufacturer's suggested
	retail price (MSRP), mortgage loan, premium, property
	damage, property taxes, renters policy, resale value, security
	deposit, trade-in value
	 Calculate sales tax.
	 Calculate extensions.
	 Calculate sales totals.
Essential	 Calculate unit cost from a group cost.
Skills	 Use unit costs as a price comparison tool.
Oniiis	 Compare sale prices at different stores.
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	Compare rental options.
	 Compare cost of renting vs. cost of buying.
	 Calculate download and upload times.
	 Compare internet access costs of different ISPs.

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Related Maine Learning Results Sample Lessons	A. Number Real Number A1.Students know how to represent and use real numbers. a. Use the concept of nth root. b. 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 and effect. b. Create and interpret scatter plots and estimate correlation and lines of best fit. 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 distribution of an entire population and recognize that larger sample sizes will produce more reliable estimates. c. Apply methods of creating random samples and recognize possible sources of bias in samples.
Lessons And Activities	 Define and calculate sales tax on single amounts and on sales totals.

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Sample	■ Quizzes
Classroom	■ Take-home Worksheets
Assessment	■ Tests
Methods	
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Sample	o Business Math
Resources	