Goal: I can use proportional relationships to solve percent problems involving taxes.

Define:

sales tax:

Lisa purchased a new sweater for $49. The sales tax where she lives is 8.7%. How much did Lisa pay, including sales tax, for her new sweater?

Step 1: Use a percent proportion or percent equation to determine how much money the percent of the purchase actually is. (Remember: always round to the nearest hundredth when dealing with money!)

Using the Percent Proportion

$$\frac{\square}{\square} = \frac{\square}{100}$$

Sales Tax:

Using the Percent Equation

$$\square = \square \cdot \square$$

Sales Tax:

Step 2: Determine if the problem is asking for the amount of the sales tax only or the total of the purchase plus the sales tax. If they are looking for the total, add the tax determined in step one to the total of the items purchased.

	+		=	
total cost of items $		sales tax $		total purchase $

You Try!!!

Mrs. Tucker purchased a new game for her classroom that was priced at $52.85. The sales tax at that location is 9.25%.

A) What is the amount of the sales tax?

B) What is the total she will pay for her purchase, including sales tax?

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