Possible Solutions

Carolyn went to the mall to buy a new outfit. She bought a pair of jeans for \$32.50 and a shirt for \$12.75. How much sales tax will she pay on her outfit if tax is 8.25%?

Possible Solution 1

1. Find the total price of the purchase.

2. Convert percentage of sales tax to decimal.

$$8.25\% \rightarrow 0.0825$$

3. Multiply the sales tax rate by the total price.

4. Round to 2 decimal places to represent currency.

$$3.733125 \rightarrow $3.73$$

Possible Solution 2

1. Find the total price of the purchase.

2. Find 8 \pm 12.75 .25 using proportions.

$$\frac{8.25}{100} = \frac{x}{45.25}$$
 Use cross products to solve

$$373.3125 = 100x$$

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$$3.733125 = x$$

3. Round to 2 decimal places to represent currency.

$$3.733125 \rightarrow $3.73$$