



Unit 2

Ratios & Proportional Relationships

Interactive Notebook

Sales Tax

Created By:

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Ratios & Proportional Relationships
(Sales Tax)

I can _____

What is sales tax?

What is the sales tax in your city?

At "Sam's Electronics" there is a 50 inch television that cost \$450.00. The sales tax is 8%. How much does sales tax cost? What is the total cost for the television?

Show your work below:

Sales Tax:

\$

Total Cost:

\$

You want to buy a table that cost \$125.00. If sales tax is 6%, how much money do you need to buy the table?

Sales Tax:

\$

Total Cost:

\$

Ratios & Proportional Relationships

(Sales Tax)

On a rating of 1-5, how comfortable are you with this concept?
(5 is the highest)

1 2 3 4 5

YOUR TURN

1

10% Tax

Price of Item:
\$132.00

Tax: \$ _____ Total: \$ _____

2

8% Tax

Price of Item:
\$12.00

Tax: \$ _____ Total: \$ _____

3

7.5% Tax

Price of Item:
\$25.60

Tax: \$ _____ Total: \$ _____

Reflection: I learned...

Ratios & Proportional Relationships
(Sales Tax)

I can calculate the sales tax and total cost.

What is sales tax?

Sales tax is an added cost on purchased goods.

What is the sales tax in your city?

Answers will vary

At "Sam's Electronics" there is a 50 inch television that cost \$450.00. The sales tax is 8%. How much does sales tax cost? What is the total cost for the television?

Show your work below:

$$\text{Sales Tax} = \$450 \times 0.08$$

$$\text{Sales Tax} = \$36$$

$$\begin{aligned} \text{Total Cost} &= \$450 + \$36 \\ &= \$486 \end{aligned}$$

$$\begin{aligned} \text{Sales Tax:} \\ &\$36 \end{aligned}$$

$$\begin{aligned} \text{Total Cost:} \\ &\$486 \end{aligned}$$

You want to buy a table that cost \$125.00. If sales tax is 6%, how much money do you need to buy the table?

$$\text{Sales Tax} = \$125 \times 0.06$$

$$\text{Sales Tax} = \$7.50$$

$$\begin{aligned} \text{Total Cost} &= \$125 + \$7.50 \\ &= \$132.50 \end{aligned}$$

$$\begin{aligned} \text{Sales Tax:} \\ &\$7.50 \end{aligned}$$

$$\begin{aligned} \text{Total Cost:} \\ &\$132.50 \end{aligned}$$

Ratios & Proportional Relationships

(Sales Tax)

On a rating of 1-5, how comfortable are you with this concept?
(5 is the highest)

1 2 3 4 5

YOUR TURN

1

10% Tax

Price of Item:
\$132.00

$$\begin{aligned} \text{Sales Tax} &= \$132 \times 0.10 \\ \text{Sales Tax} &= \$13.20 \end{aligned}$$

$$\begin{aligned} \text{Total Cost} &= \$132 + \$13.20 \\ &= \$145.20 \end{aligned}$$

Tax: \$ 13.20 Total: \$ 145.20

2

8% Tax

Price of Item:
\$12.00

$$\begin{aligned} \text{Sales Tax} &= \$12 \times 0.08 \\ \text{Sales Tax} &= \$0.96 \end{aligned}$$

$$\begin{aligned} \text{Total Cost} &= \$12 + \$0.96 \\ &= \$12.96 \end{aligned}$$

Tax: \$ 0.96 Total: \$ 12.96

3

7.5% Tax

Price of Item:
\$25.60

$$\begin{aligned} \text{Sales Tax} &= \$25.60 \times 0.075 \\ \text{Sales Tax} &= \$1.92 \end{aligned}$$

$$\begin{aligned} \text{Total Cost} &= \$25.60 + \$1.92 \\ &= \$27.52 \end{aligned}$$

Tax: \$ 1.92 Total: \$ 27.52

Reflection: I learned...

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