

Unit 2

Ratios & Proportional Relationships

Homework

SALES TAX

Created By: **Math in Demand**

Get Connected with Math in Demand

Please don't
forget to
rate me.
Click here!!!



Teachers Pay Teachers Store



Check Out My Blog



Visit My Pinterest

Click on the
buttons to
learn more
about me!



Watch My Videos



Email Me

Thank you!!!

Score ___ / ___

Name: _____

Date: _____

Per: _____

Circle One
Due: M T W Th F

Ratios & Proportional Relationships

(Sales Tax)

Directions: Answer problems #1-5. Show all of your work!

1

What is sales tax?

2

A television is on sale for \$675. How much would the sales tax cost if there is a 7.5% sales tax?

5

Jessica bought a computer including sales tax for \$1,337.50. If the computer cost \$1,250 without sales tax, what was the percent of sales tax?

Jason wants to buy a television that cost \$450. Yet, he needs to make sure he has enough money after a 9% sales tax. How much money does Jason need?

3

Kim went to the store and bought 4 items: \$32.45, \$46.78, \$12.91, and \$52.38. How much did Kim spend if the sales tax is 8%?

4

Ratios & Proportional Relationships

(Sales Tax)

Directions: Answer problems #6-8. Show all of your work!

6 Find the mistake!

Circle the mistake below and explain why it is wrong:

Wendy wants to buy a pair of shoes that cost \$24.50. If the sales tax is 8.5%, how much does Wendy owe in sales tax?

$$\text{Sales tax} = \$24.50 \times 0.85 = \$20.83$$

Wendy owes \$20.83 in sales tax.

Explanation:

7 Be Creative!

Create your own word problem and solve below:

8

Reflection:

From this homework assignment, I ...

Circle One
Due: M T W Th F

Ratios & Proportional Relationships (Sales Tax)

Directions: Answer problems #1-5. Show all of your work!

1

What is sales tax?

Sales tax is an added cost on purchased goods.

2

A television is on sale for \$675. How much would the sales tax cost if there is a 7.5% sales tax?

$$\begin{aligned} \text{Sales tax} &= (\$675)(0.075) \\ \text{Sales tax} &= \$50.63 \end{aligned}$$

5

Jessica bought a computer including sales tax for \$1,337.50. If the computer cost \$1,250 without sales tax, what was the percent of sales tax?

$$\text{Sales tax} = \text{Cost} \times \text{Rate}$$

$$\text{Rate} = \frac{\text{Sales tax}}{\text{Cost}}$$

$$\text{Rate} = \frac{\$1,337.50 - \$1,250}{\$1,250}$$

$$\text{Rate} = \frac{\$87.50}{\$1,250} = 0.07 = 7\%$$

The sales tax would be \$50.63.

Jason wants to buy a television that cost \$450. Yet, he needs to make sure he has enough money after a 9% sales tax. How much money does Jason need?

$$\begin{aligned} \text{Sales tax} &= (\$450)(0.09) \\ \text{Sales tax} &= \$40.50 \end{aligned}$$

$$\begin{aligned} \text{Total} &= \$450 + \$40.50 \\ \text{Total} &= \$490.50 \end{aligned}$$

3

Jason would need \$490.50 to buy the television.

Kim went to the store and bought 4 items: \$32.45, \$46.78, \$12.91, and \$52.38. How much did Kim spend if the sales tax is 8%?

$$\begin{aligned} &\$32.45 + \$46.78 + \$12.91 + \$52.38 \\ &= \$144.52 \end{aligned}$$

$$\begin{aligned} \text{Sales tax} &= (\$144.52)(0.08) \\ \text{Sales tax} &= \$11.56 \end{aligned}$$

$$\begin{aligned} \text{Total Paid} &= \$144.52 + \$11.56 \\ \text{Total Paid} &= \$156.08 \end{aligned}$$

4

Ratios & Proportional Relationships

(Sales Tax)

Directions: Answer problems #6-8. Show all of your work!

6 Find the mistake!

Circle the mistake below and explain why it is wrong:

Wendy wants to buy a pair of shoes that cost \$24.50. If the sales tax is 8.5%, how much does Wendy owe in sales tax?

$$\text{Sales tax} = \$24.50 \times 0.85 = \$20.83$$

Wendy owes \$20.83 in sales tax.

Explanation:

8.5% is 0.085 (not 0.85). So,
Sales tax = $\$24.50 \times 0.085 = \2.08 .
Wendy owes \$2.08 in sales tax.

7 Be Creative!

Create your own word problem and solve below:

In order to receive credit, students need to create their own word problem and solve it. They will not receive credit if they do not provide a word problem. Also, it needs to be a word problem involving sales tax.

8 Reflection:

From this homework assignment, I ...

Students need to write a good reflection about 2-3 sentences long. They cannot write "I learned how to do math" or anything similar. The reflection needs to show serious thought.

© 2018 Math in Demand. The download of my homework includes a limited use license from Math in Demand. You may only use the resource for personal classroom use.

Hence,

- 1.) This purchase does not allow you to transfer it to others such as another teacher, school, or district. You must purchase an additional license.
- 2.) You may not sell my homework.
- 3.) You may not place my homework on the internet.
- 4.) You may not use any part of my homework to sell or create your own.

Violating these terms is against the Digital Millennium Copyright Act (DMCA).

Credits

Paula Kim Studio



Media Icons by Grade ONEderful at:

<http://www.GradeONEderful.com>

Font and graphics by:

<http://www.teacherspayteachers.com/Store/Courtney-Keimer>
<https://www.teacherspayteachers.com/Store/Sonya-Dehart-Design>