

Sales Tax and Commission

1. A person purchases a television for \$674.99. What is the sales tax amount if the sales tax rate is 8.95%?

2. The total price paid for a dining table was \$913.62. The price tag indicates a purchase price of \$843.99. What is the sales tax rate?

3. A sales person sells \$2,973.56 worth of home appliances in one week. His commission rate is 15.75%. How much commission did he earn?

4. A recent paycheck showed that a sales clerk earned \$1,234.53 for one month of sales. If the sales clerk sold \$18,705.00 worth of merchandise, what is the commission rate?

Sales Tax and Commission

1. A person purchases a television for \$674.99. What is the sales tax amount if the sales tax rate is 8.95%?

Recall: $(\%) \cdot (\text{Total}) = (\text{Portion})$

$$\left(\frac{\%}{\text{Tax}}\right) \cdot (\text{Purchase Price}) = (\text{Amount of Sales Tax})$$

So to find the amount of sales tax, multiply the "% Tax" by the "Purchase Price"!

$$(\text{Amount of Sales Tax}) = (0.0895) \cdot (674.99) = \boxed{\$60.41}$$

Note: $8.95\% = 0.0895$

2. The total price paid for a dining table was \$913.62. The price tag indicates a purchase price of \$843.99. What is the sales tax rate?

$$(\text{The Amount of Sales Tax}) = (\text{Total Price}) - (\text{Purchase Price})$$

$$= 913.62 - 843.99$$

$$= \underline{69.63}$$

$$(\text{Amount of Sales Tax}) = (\text{Purchase Price}) \cdot (\% \text{ Tax})$$

$$\frac{69.63}{843.99} = \frac{843.99 \cdot X}{843.99}$$

$$0.0825 = X$$

$$X = 0.0825$$

$$\boxed{X = 8.25\%}$$

Sales Tax Rate!

3. A sales person sells \$2,973.56 worth of home appliances in one week. His commission rate is 15.75%. How much commission did he earn?

$$\left(\begin{array}{c} \text{The amount of} \\ \text{Commission} \end{array} \right) = \left(\begin{array}{c} \% \\ \text{Commission} \end{array} \right) \cdot \left(\begin{array}{c} \text{Total} \\ \text{Sales} \end{array} \right)$$

$$= (0.1575) \cdot (2,973.56)$$

$$= \underline{468.34}$$

ANSWER
\$468.34

4. A recent paycheck showed that a sales clerk earned \$1,234.53 for one month of sales. If the sales clerk sold \$18,705.00 worth of merchandise, what is the commission rate?

$$\left(\begin{array}{c} \text{The amount of} \\ \text{Commission} \end{array} \right) = \left(\begin{array}{c} \% \\ \text{Commission} \end{array} \right) \cdot \left(\begin{array}{c} \text{Total} \\ \text{Sales} \end{array} \right)$$

$$1,234.53 = x \cdot 18,705.00$$

$$\frac{1,234.53}{18,705.00} = \frac{18,705.00 x}{18,705.00}$$

$$\underline{0.066} = x$$

Therefore the Commission Rate is 6.6%!