

Tax/ Tip:

A percentage of a total amount that is added back to that original amount.

Commission:

A fee paid to a person for making a sale.

EX: Car salesman, Realtor

Example- Together: \downarrow total

Sheila bought \$146.87 worth of groceries. The sales tax rate

was 6%. Proportion: $\frac{X}{146.87} = \frac{6}{100}$

How much did she spend in all? $X = 8.81$

Sales Tax: \$8.81

Total: \$155.68

$(146.87 + 8.81)$

\downarrow Cross multiply

Example- Together:

Michael's breakfast bill came to

\$7.65. He wants to leave a tip that is 15% of the bill.

total

How much did he spend in all?

$$\frac{x}{7.65} = \frac{15}{100}$$

$$x = \$1.15$$

Tip: \$1.15

Total: \$8.80

$$(7.65 + 1.15)$$

Example:

Mavis went to the store to buy a pair of pants. The pants were originally

\$55. There was a discount of 20% and a sales tax of 7%. What was the

total

final price Mavis paid?

$$\frac{x}{55} = \frac{20}{100}$$

$$x = \$11 \text{ discount}$$

$$55 - 11 = \$44 \text{ Sale Price}$$

$$\frac{x}{44} = \frac{7}{100} \quad x = \$3.08 \text{ tax}$$

$$44 + 3.08$$

\$47.01
Final Price

Example:

Calculate the commission earned:
15% on \$26,000 in sales.

$$\frac{x}{26000} = \frac{15}{100}$$

$$x = \$3,900$$

Commission

Find the total earnings, given the salary, commission rate, and sales.

\$2,000 plus 9% on sales of \$2,800

$$\frac{x}{2800} = \frac{9}{100}$$

$$x = \$252$$

Commission

$$\begin{array}{l} 2000 + 252 = \\ \text{Salary} \quad \text{commission} \end{array}$$

$$\boxed{\$2,252}$$

