# Calculating commission

In this lesson we'll learn how to calculate the commission earned.

What is commission? Commission is the amount of money a salesperson earns on the sale of an item.

The formula for commission:

Commission = Selling Price · Percent Commission

Let's look at a couple of examples.

### **Example**

A wax warmer business advertises that you can make 25% commission on sales of their product. If you make \$2,500.00 in sales, how much money will you earn?

To find your commission, we multiply the selling price by the percent commission.

25 % of \$2,500.00

\$2,500.00 · 0.25

\$625

You will earn \$625 for selling \$2,500.00 worth of product.



People who sell clothes often work on commission plus an hourly salary.

#### **Example**

An employee at a clothing store earned \$450.25 in hourly pay for the month. He also sold \$3,500.00 worth of merchandise and expects to earn a commission of 8% on those sales. What is the employee's total expected pay before tax deductions?

First find the amount he earned in commissions.

8 % of \$3,500.00

\$3,500.00 · 0.08

\$280.00

Now calculate the employee's total expected pay.

\$450.25 + \$280.00

\$730.25

The employee expects to be paid a total of \$730.25.

People who sell cars often earn a yearly salary and commissions on sales.



#### **Example**

Stephanie earns \$42,000.00 per year plus a commission of 15% on all the cars she sells. If she wants to earn a total of \$67,200.00, how much money in car sales does she need to make?

We know that the amount she wants to earn in commissions is

$$$67,200.00 - $42,000.00$$

Then

$$$25,200.00 = 15\% \text{ of } x$$

where x is the amount of money she needs to make in car sales.

$$$25,200.00 = 0.15x$$

$$\frac{25,200.00}{0.15} = x$$

$$168,000 = x$$

This means that to earn a salary of \$67,200.00, Stephanie needs to sell \$168,000.00 worth of cars.



Real estate agents often make all their money on only commission. For example, when they help a client sell a house, they earn a commission (as a percentage of the sale price) on the sale.

## **Example**

A real estate agent is working with multiple clients. In March, he helps his first client sell a house for \$315,000 and earns 3% commission, he helps a second client sell a house for \$225,000 and earns 4% commission, and he helps a third client sell a house for \$410,000 and earns 6% commission. How much commission did the agent earn in total in March?

First, calculate the commission on each sale individually.

First client:

$$315,000 \cdot 3\% = 315,000 \cdot 0.03 = 99,450$$

Second client:

$$225,000 \cdot 4\% = 225,000 \cdot 0.04 = 9,000$$

Third client:

$$$410,000 \cdot 6\% = 410,000 \cdot 0.06 = $24,600$$

Then add the commission amounts to find the agent's total commission in March.

$$$9,450 + $9,000 + $24,600$$