Tip, Commission, and Gratuity

Tip, commission, and gratuity are words to describe extra money a worker is paid. To find the commission or gratuity, set up a proportion based on the information and solve.

Ex. 1: Martin is paid a 12% commission on his shoe sales. He sold \$780 worth of shoes. Find his commission.

$$\frac{12}{100} = \frac{x}{780}$$

$$x \Rightarrow 93.60$$
Commission

Ex. 2: Restaurants usually charge 15% gratuity in addition to your bill for parties of eight or more people. Find the total cost for a party of ten whose bill was \$286.

$$\frac{15}{100} = \frac{x}{286} \quad x = 42.90 \text{ gratuity}$$

$$286 + 42.90 = 328.90 \text{ total}$$

$$cost!$$

When you go to a restaurant, you will want to find the tip without a calculator or pencil. A shortcut for estimating the tip is to first round the number. Then find 10% by moving the decimal one place to the left. Once you know what 10% is, you double it to find 20% or take half of it to find 5%. Although it is a personal decision, most people leave 15% or 20%.

Ex. 1 My family and I went out for dinner for my birthday last week. Our bill was \$123. The waiter did an average job of serving us so my husband decided to tip him 15%. Show how you would find the 15% without using a calculator.

$$120, -710\%$$
 is 12 $\Rightarrow 15\% = 12+6 = 18$

Ex. 2 Estimate a 20% tip for a restaurant bill of \$153.

Ex. 3 Using estimation, find a 15% tip for a sale of \$85.50.

85.50
$$\rightarrow$$
 90

10% \rightarrow 9

Leave 9+4.50 = 13.50

5% \rightarrow 4.50

or 9+5 \rightarrow 14

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