I can solve real-world percent problems.

Gratuity (**Tip**): A percent earned by a person for providing a service.

The tip is a <u>percentage</u> of your bill.

Step 1: ______ the percent by the bill to get the tip.

Step 2: Add this amount to the bill

Example 1:

You want to leave a 15% tip and your meal costs \$10. How much should you leave for a tip?

How much did you spend altogether?

Example 2 (You Try):

You want to leave a 20% tip and your meal costs \$15. How much should you leave for a tip?

How much did you spend altogether?

Going Backwards (Finding the Bill)

Example 1:

Justin leaves a tip of \$6, which was 20% of the cost of his meal. How much did his meal cost?

$$\frac{20}{100} = \frac{6}{x}$$

Example 2:

Eric's family leaves a tip of \$18, which was 15% of the cost of their bill. How much did their meal cost?

$$\frac{15}{100} = \frac{18}{x}$$

Sales Tax: A percent of a purchase charged by the government

Tax is a <u>Percentage</u> OF your purchase

Step 1: Multiply the percent by the purchase to get the tax.

Step 2: Add the answer to the original purchase.

Example 1:

The sales tax is 6.5%. If you buy a television for \$500, how much is your sales tax?

Including tax, how much did you spend?

Example 2 (You Try):

The sales tax is 7%. If you spent \$60 on items, how much is your sales tax?

Including sales tax, how much did you spend?

Example 3:

Menu:

Hamburger meal: \$8.75

Drink: \$2.50

You and a friend each order a hamburger meal and drink. What is your total amount you will spend (not including tax... yet)?

What is the tax of the meal with 6.5% tax?

What is the final bill?

Example 4 (You Try):

The bill for a family dinner was \$49.53. What is the bill with a 6.5% sales tax?

Mr. Jones wants to leave about 15% of the bill as a tip. What is the tip?

What is the total amount the family paid?