

Format of equation for today: _____

1. The check arrived for your family's dinner at Mackenzie River. The total is \$85.50. Your family leaves a 20% tip. What is the total amount spent on dinner?

2. A car salesman earns \$2500 each month and a 5% commission on his sales. If he sold \$232,000 worth of cars that month, what will his total income be?

3. The skis you want are on a 35% off sale. If the skis were originally \$550, how much will the sale price be?

4. An appliance store owner buys machines from a manufacturer and then adds 45% to the price. If the owner bought a dishwasher for \$330, what price will customers have to pay for?

5. You found a Black Friday deal that will give 30% off if you spend over \$200. You found \$215 worth of things to buy.
 - a. What price will you pay for all of you items?

 - b. How much did you save?

6. You found a sweet pair of Bose Headphones on eBay for \$25, so you purchase them. Then you see you have bought them from a seller in Virginia, so you will be charged 4.25% tax. And, you have to pay \$5.99 in shipping. What will the total bill form eBay be?

Now, be careful:

7. The Badenhop's bought a new car in Salt Lake City, Utah. The price they paid was \$28,250.75, **which included the 8% sales tax**. What was the price of the car *before* the tax?

8. An appliance store owner buys machines from a manufacturer and then adds 45% to the price. If the owner sells you a \$1,400 refrigerator, then **how much did he pay for the machine?**

Now think Algebraically –

9. Suppose a dinner cost D dollars and you wish to give a 10% tip.

a. Write the amount of the tip mathematically:

b. Write the cost of the entire dinner mathematically:

10. A table is being sold for 25% off. If the table was T dollars, then write the sale price of the table mathematically.