

# Key

Your bill at Taco Mac is \$80. Your waiter was excellent, so you want to leave a 25% tip.

1. How much is the tip?  $\$20 = 0.25 \cdot 80$

2. How much total money will you need?  $\$100$

Billy took his car to Cactus Car Wash for the \$15 Wednesday Wash Special. He appreciates the good work that the employees did and wants to leave a 15% tip.

1. How much is the tip?  $\$2.25 = 0.15 \cdot 15$

2. How much total money will he need?  $\$17.25$

Jimmy wants to buy a new skateboard that costs \$45. The sales tax to buy the skateboard is 6%.

1. How much will Jimmy have to pay in tax?

$$\$2.70 = 0.06 \cdot 45$$

2. How much will Jimmy have to pay altogether?

$$\$47.70$$

Suzie wants to buy a new outfit that costs \$70. The sales tax to buy the clothes is 7%.

1. How much will suzie have to pay in tax?

$$\$4.90 = 0.07 \cdot \$70$$

2. Total?  $\$74.90$

Sally has a coupon for 75% off of the purchase of any \$20 Hollister shirt.

1. How much will Sally save?  $\$15.00 = 0.75 \cdot 20$

2. How much will Sally pay?  $\$5.00$

Harold get a senior citizen discount of 10% at IHOP. He buys a stack of pancakes for \$4.50.

1. How much will Harold save?  $\$0.45 = 0.1 \cdot 4.50$

2. How much will Harold pay?  $\$4.05$

A *tip* is something that we ADD to our bill at a restaurant, car wash, or anywhere else that a service might be rendered. It's how we show our appreciation for a job well done!

To find the amount of the tip, simply change the percent you want to give into a decimal (ex: 20% = .2) and multiply times your total bill. Then, **add** this to the total.

**Ex:** Our bill is \$30 and we want to leave a 20% tip.

- 20% of \$30 is \$6 (That's  $0.2 \times 30 = 6$ )
- \$30 + \$6 tip = \$36 altogether.

$$100\% + 20\% = 120\%$$

OR, since you are going to ADD the tip, you could multiply your total by 1.2. That's 120%! This includes 100% (the original bill) plus the 20% tip.

**Ex:**  $\$30 \times 1.2 = \$36$  (This eliminates one step.)

A *tax* is something that is added to a bill. It is usually a percent of your bill. In Cobb County, the sales tax is 6%.

To find the amount you will pay in tax, change the tax percent to a decimal and multiply by your total bill.

To find the total amount you will owe, simply **add** the amount of tax to your bill.

**Example:** If I buy a \$25 shirt, I will have to pay 6% sales tax.

- 6% of \$25 is \$1.50 (That's  $.06 \times 25 = 1.50$ )
- I will have to pay \$26.50 total for the \$25 shirt.

OR, since you are going to ADD the tax, you could multiply your total by 1.06. That's 106%, including 100% of the original price and 6% tax.

**Ex:**  $\$25 \times 1.06 = \$26.50$

A *discount* is something that you **subtract** from the total amount you owe. We get discounts from coupons or sales.

To find the amount you can subtract for the discount, change the percent to a decimal and multiply by the total.

Then, simply **subtract** this discount from your total.

**Example:** A \$30 pair of jeans is on sale for 25% off!

- 25% of \$30 is \$7.50 (That's  $.25 \times 30 = 7.50$ )
- The reduced price of the jeans is \$22.50 (That's  $\$30.00 - \$7.50 = \$22.50$ )

OR, since this discount is 25% off, that means you're only paying 75%. So, you could multiply by 0.75.

**Ex:**  $\$30 \times 0.75 = \$22.50$