

Name _____ Per _____

Mrs. Doolan/Math6

Solve for a Sales Price or Adding a Tip by Using Percent of a Number

Have you ever wondered how a sales price is calculated? Or how a tip is added to a restaurant bill? To determine both you first solve for *percent of a number*. To calculate a sales price you solve for percent of a number and then you subtract that number off.

Example #1: You want to buy an iPod. The full price is \$180, but it is on sale for 20% off. How much will the iPod cost on sale?

Step #1: Multiply \$180 x _____.



Step #2: Subtract \$180 - _____.

Step #3: Solve: Sales price: \$_____.

Example #2: You want to buy a game for Xbox 360. The full price is \$60, but it is on sale for 35% off. How much will the game cost on sale?

Step #1: Multiply \$60 x _____.

Step #2: Subtract \$60 - _____.

Step #3: Solve: Sales price: \$_____.

We also use solving for percentage to tip at a restaurant. To calculate a tip you first solve for percent of the bill and then you add that number on to the amount of the bill.

Example #3: Your family decides to celebrate your excellent report card by dining at Noon Hill Grill one evening. The bill arrives and your parents want to add a 20% tip to it. If the bill was \$82.40, how much would they pay, including the tip?



Step #1: Multiply \$82.40 x _____.

Step #2: Add \$82.40 + _____.

Step #3: Solve: Total restaurant price (bill and tip): \$_____.

Example #3: The women's Olympic hockey team went out to dinner when they arrived back in the United States. Their bill was \$362.18. Their coach added a 25% tip. How much was the total of their restaurant bill and tip? *Remember, round all tips to the hundredths place if needed.*



Step #1: Multiply \$362.18 x _____.

Step #2: Add \$362.18 + _____.

Step #3: Solve: Total restaurant price (bill and tip): \$_____.