

Living the Math: Eating Out

Consult your teacher for the number of items to complete and the due date.

1. While your family is ordering at a restaurant, estimate the cost of the bill. After your server brings the check, compare your estimate with the actual cost.

Estimate: _____

Actual cost: _____

Difference: _____

2. Using the total from the bill in the previous exercise, figure out the tip. (Hint: First, figure out 10%. Double it for 20%. Halve it for 5%, and then add that to the 10% to get 15%. For example, if the bill was \$25.00, then 10% would be \$2.50. Double it to get 20%, \$5.00. Halve it to get 5%, \$1.25, and then add that to the 10%, \$2.50, to get 15%, \$3.75.)

What would a 15% tip be? _____

What would a 20% tip be? _____

3. With a few friends, review a restaurant's menu and decide what you would order. Figure out what each of you would pay if you divided the total bill evenly. Include an 18% tip.

Price per person: _____

4. You visit a bakery to purchase cookies to take to a friend. You intend to purchase 2 pounds of cookies, which are \$3.99 a pound. However, you see a sign that says 3 pounds of cookies are \$11.00. Explain why you choose to purchase 3 pounds instead of 2 pounds. Also, explain why someone might not want to purchase the extra pound.

Reason for purchasing 3 pounds: _____

Reason for purchasing 2 pounds: _____

5. You are eating out at a local restaurant with a friend, and the bill comes to \$33.00 before tax. Your friend has a coupon that allows for 30% off the total bill. How much money will you save? What is the new cost of the bill with 8% tax and a 17% gratuity? Please attach all scratch paper.

Money saved with coupon: _____

New total: _____