## **Restaurant Math Calculations**

Calculate the correct answer for the word problems. Be sure to show your work.

1. The dishwasher at a restaurant is loaded with the same number of dishes every time it is used. The table shows the total number of dishes washed as a function of the number of times the dishwasher is used.

Restaurant Dishwasher	
2	56
4	112
6	168
8	224

Based on the data in the table, what is the total number of dishes that will have been washed when the dishwasher is used 12 times?

- a. 280 b. 308 c. 28 d. 336
- 2. Jacob runs a Chinese food restaurant that sells eggrolls. The business makes 65% profit on every eggroll it sells. In one day, 740 eggrolls were sold for a total profit of \$841.75. What was the selling price of each eggroll?

Selling Price =  $\frac{Profit}{N*R}$ , where N = number of eggrolls and R = rate as a decimal.

a. \$2.00 b. \$1.75 c. \$1.14 d. \$0.65

age

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3. Each time you fill up a drink from the soda fountain, it costs \$.27. If you charge \$2.29 for a fountain drink and have free refills, what is your percentage profit on a customer that gets two free refills?

Percentage profit =  $\frac{\text{cost of soda} - (\text{price per refill}) * (\text{number of total sodas served})}{\text{cost of soda}} * 100$ 

a. 65%

b. 76%

c. 148%

- d. 175%
- 4. Cynthia is using her recipe to cook rice at the restaurant. If the recipe originally calls for 1 cup of rice, how many pounds of rice will she need to cook to feed 100 people if her recipe serves four?

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1 \text{ cup} = 8 \text{ ounces} \quad 1 \text{ pound} = 16 \text{ ounces}
Ounces \text{ of rice per serving} = \frac{\text{ounces of rice in recipe}}{\text{number of servings recipe makes}}
Total \text{ pounds of rice needed} = \frac{\text{number of people * ounces of rice per serving}}{16}
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- a. 50 pounds
- b. 200 pounds
- c. 12.5 pounds
- d. 800 pounds

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5. A restaurant uses 15 pounds of bacon per day. There are 31 days this month. If bacon is purchased in 15 pound cases at \$55.20/2, how much did the restaurant spend on bacon this month?

$$C(\mathbf{x}) = \frac{55.20}{2} \mathbf{x}$$
  
a. \$27.60  
b. \$414.00  
c. \$12,834.00  
d. \$855.60

6. A restaurant uses 1.5 pounds of cheese per day. There are 30 days this month. If cheese is purchased in 5 pound bags at \$99.51/6, how much did the restaurant spend on cheese this month?

Use this equation to find the cost for using x pounds of cheese:

$$C(\mathbf{x}) = \frac{99.51/6}{5} * \mathbf{x}$$
  
a. \$45.00  
b. \$3.32  
c. \$149.27  
d. \$4.98

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