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## 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 $=\frac{\text { Profit }}{N * R}$, where $\mathrm{N}=$ number of eggrolls and $\mathrm{R}=$ rate as a decimal.
a. $\$ 2.00$
b. $\$ 1.75$
c. $\$ 1.14$
d. $\$ 0.65$
$\qquad$
$\qquad$ Date $\qquad$

## Restaurant Math Calculations

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

$$
\begin{aligned}
& 1 \text { cup }=8 \text { ounces } 1 \text { pound }=16 \text { ounces } \\
& \text { Ounces of rice per serving }=\frac{\text { ounces of rice in recipe }}{\text { number of servings recipe makes }} \\
& \text { Total pounds of rice needed }=\frac{\text { number of people } * \text { ounces of rice per serving }}{16}
\end{aligned}
$$

a. 50 pounds
b. 200 pounds
c. 12.5 pounds
d. 800 pounds
$\qquad$
$\qquad$
$\qquad$

## Restaurant Math Calculations

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

$$
C(x)=\frac{55.20}{2} x
$$

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:

$$
C(x)=\frac{99.51 / 6}{5} * x
$$

a. $\$ 45.00$
b. $\$ 3.32$
c. $\$ 149.27$
d. $\$ 4.98$

