**Applied Math for Culinary Management**

**2014-2015 Regional/State Test Key**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Chapter Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State\_\_\_\_\_\_\_\_\_

\_\_\_Senior \_\_\_Occupational Test Completed (minutes/seconds):\_\_\_\_\_\_\_

Test Score: \_\_\_\_\_\_\_/20

*Please indicate your choice of answer by writing the letter (a, b, c or d) in the space provided. Remember this is a timed test. You have a maximum of 30 minutes.*

\_\_B\_\_\_1. Wholesale price is the total price charged for a product sold to a customer.

1. True
2. False

\_\_A\_\_2. Popularity index is the percentage of total portion of sales represented by each item.

1. True
2. False

\_\_B\_\_3. Edible portion is calculated by dividing the trimmed amount by the percentage yield.

1. True
2. False

\_\_B\_\_4. There needs to be 12 cases of apples in par stock but you only have 3.75 cases. You need to order 8 cases?

1. True
2. False

\_\_A\_\_5. 48 teaspoons = 1 cup

1. True
2. False

\_\_B\_\_6. 1 large egg = 3 Tablespoons

1. True
2. False

\_\_A\_\_7. The profit for a slice of cake is $1.97 if the selling price is $3.50 and the cost per serving is $1.53.

1. True
2. False

\_\_B\_\_8. Labor cost is calculated by dividing the total sales by the number of employees working

1. True
2. False

\_\_A\_\_9. If you purchase 4.5 pounds of veal chops for $48.25, the cost per useable ounce is $0.67.

1. True
2. False

\_\_A\_\_10. To determine the Baker’s Percentage, all ingredients must be expressed in the same unit.

1. True
2. False

*(Questions 11 - 17)* Complete the blanks in the purchase order below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Qty** | **Item #** | **Description** | | **Unit Price** | **Line Total** |
| 2 | 12325 | Beef, Tenderloin (5# case) | | $79.99 | 11) \_\_$159.98\_\_\_\_ |
| 6 | 12562 | Onion, Yellow (3# case) | | $4.23 | 12) \_$25.38\_\_\_\_\_ |
| 3 | 12586 | Mushroom, Button (1#/box) | | $6.56 | 13) \_$19.68\_\_\_\_\_ |
|  |  |  |  | Subtotal | 14) \_$205.04\_\_\_\_\_ |
|  |  |  |  | Sales Tax  (7.6%) | 15) \_$15.58\_\_\_\_\_ |
|  |  |  |  | **Total** | 16) **\_\_$220.63\_\_\_** |

\_B\_\_\_17. If you received a 5% discount off the total cost of the purchase order above for a net 10 payment, how much is the discount?

1. $10.25
2. $11.03
3. $16.76
4. $23.57

\_\_A\_\_\_18. 7 cases (36 bags/ case) of potato chips were sold in concessions for the game last night. Each case costs $22.80, and you charged $1.25 per bags. How much gross profit did you make from the sale of potato chips?

1. $155.40
2. $159.60
3. $252.00
4. $315.00

\_B\_\_\_19. A recipe calls for a 1/3 cup of oil but you need to divide the recipe in half. What is 1/3 cup reduced by half?

1. 1 Tbsp. + 2 tsp
2. 2 Tbsp. + 2 tsp.
3. 5 Tbsp. + 1 tsp.
4. 1/6 cup

20. \_\_\_\_8\_\_\_\_fluid oz = 1 cup