

## Culinary Math

**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Midterm - Chapter 1 through 7 and class work

1. There are 8 sheet cakes that measure 13 inches long by 9 inches wide and are  $2\frac{3}{4}$  inches tall on the edges. Chef needs  $\frac{1}{4}$  inch thick pink icing on the top. A cup of icing applied  $\frac{1}{4}$  thick spreads over 60 square inches of cake. How many cups of icing do you need?
2. Chef purchased 32.5 pounds of onions for the salad bar. There is 3 lbs of trim to be thrown away. What is the yield percentage for these onions?
3. Chef has 2.5 quarts of molasses. What is the weight of molasses in pounds?
4. Chef asks you to spread 1.25 tsp of sauce on each hors d'oeuvre. How many cups of sauce are required for 425 hors d'oeuvre?
5. Chef has 16 – 1 liter containers of white wine. How many servings of wine are there if the glasses can easily hold 6 fluid ounces of wine?
6. Chef needs this recipe converted for Chili which serves 6 to 40 servings.

1 qt beef broth		
1 $\frac{1}{4}$ lb ground beef		
12 oz. sausage		
$\frac{1}{4}$ cup onion		
3 tbsp chili powder		
1 $\frac{1}{4}$ tsp cinnamon		
$\frac{1}{4}$ tsp allspice		
$\frac{1}{2}$ tsp salt		
$\frac{1}{16}$ tsp red pepper		
15 oz tomatoes		
2 Tbsp vinegar		
$\frac{3}{4}$ oz unsweetened chocolate		

### **Metric Conversion**

Chef needs you to convert this recipe for KYURI TO KANI NO SUNOMONO to English units

1 sm. cucumber, 18 cm long		
2 ml salt		
100 g fresh crab meat		

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### More Conversions:

1. \_\_\_\_\_ tbsp equals 6 tsp
2. \_\_\_\_\_ cups in 2 pint
3. \_\_\_\_\_ half gallons in 2 gallon
4. \_\_\_\_\_ quarts in a 3 gallon
5. \_\_\_\_\_ fluid oz. in 2 gallon
6. \_\_\_\_\_ fluid oz. in 3 cup
7. \_\_\_\_\_  $\frac{1}{4}$  tsp in 1 tbsp
8. \_\_\_\_\_ cups in 2.5 gallon
9. \_\_\_\_\_ quarts in 1.5 gallon
10. \_\_\_\_\_ pints in a half gallon
11. \_\_\_\_\_ tbsp in 0.5 cup
12. \_\_\_\_\_ pecks in  $\frac{1}{2}$  bushel
13. \_\_\_\_\_  $\frac{1}{2}$  tsp in a 2 tbsp
14. \_\_\_\_\_ pints in 4 quarts
15. \_\_\_\_\_ pints in  $\frac{1}{2}$  gallon
16. \_\_\_\_\_ cups in a half gallon
17. \_\_\_\_\_ cups in 2.5 quarts
18. \_\_\_\_\_ fluid oz. in 3 quart
19. \_\_\_\_\_ fluid oz. in a tbsp
20. \_\_\_\_\_ gallons in 2 bushel