

Unit 2 Open Response

Answer each of the following.

1. **Show your steps in solving each of the following equations.** The steps count 4 points for each equation and the solution is 1 point for each. Round the solution to two decimal places. **(10 points)**

a. $4x - 5 = 16$

b. $35 + 3x - 11 = 23$

2. **What's cooking?** Everyone has their favorite kind of food. What's yours, Mexican, Italian, Indian, American, Oriental or something else? In this problem you will get the opportunity to find a great recipe and alter it to serve different numbers of guests.

- a. Use the sites listed below or a favorite site of your own to find a recipe that sounds appealing. Ground rules: a few of the ingredients must use fractions, and there must be a minimum of 5 ingredients listed. List the recipe here. *Give number served, ingredients and amounts, as well as directions for preparation.* **(5 points)**

<http://allrecipes.com/>

<http://www.epicurious.com/>

<http://www.recipesource.com/>

<http://www.foodtv.com/>

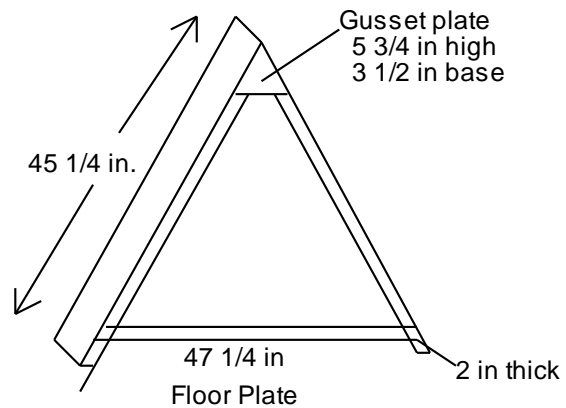
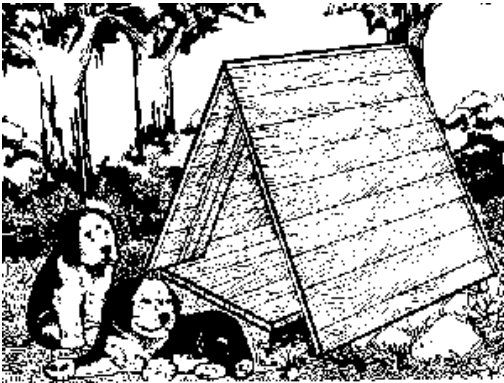
<http://www.cooksrecipes.com/>

<http://www.meals.com/Index/Index.aspx>

b. Change the recipe to serve $\frac{1}{2}$ the number of servings listed. (5 points)

c. Change the recipe to serve 3 times the number of servings listed. (5 points)

3. **Building an A-frame dog house.** Your club has decided to build and sell dog houses for a fundraising project. You found this dog house a set of plans by searching the net.



A customer has offered to pay extra if you will make one half the size called for in the plans. Take each of the 5 measures shown in the drawing and find half of the measure. Show your work to get full credit! (5 points)