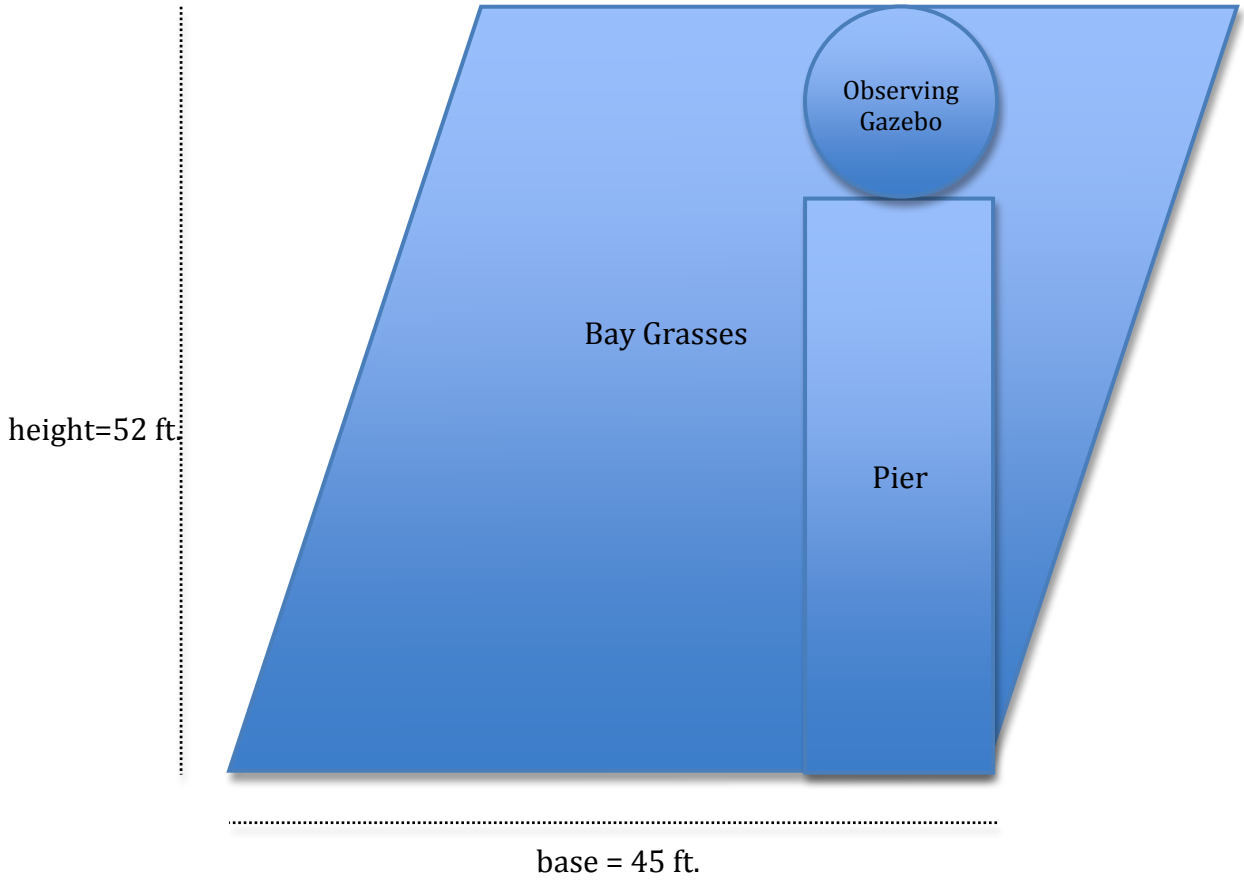
Mrs. Young
April 12, 2012

Mr. Stick wanted to plant a large quantity of bay grasses in an attempt to improve conditions for bay animals and birds. The planting site is located in a bird-watching sactuary, where people come from all over the world to observe the Great Blue Herons nesting in order to raise their young. *Mr. Stick must calculate the square footage of the planting site so he knows how many bay grasses he must plant.*

Below is a diagram of the area in which Mr. Stick will plant the grasses. As you can see, there is a large area for the grasses, however there is a pier, as well as an observing gazebo, which will allow visitors to get closer to the Heron nest for better observations. Mr. Stick will <u>not</u> be able to plant bay grasses <u>under</u> the pier or the gazebo.



The pier is 40 feet long and 12 feet wide. What must that mean about the diameter of the circle? (C'mon, you can figure this one out – LOOK at the diagram! ☺)

Using the given measurements, help Mr. Stick figure out the square area of the site that ***<u>can</u>*** *be filled with bay grasses.* You must work terribly NEATLY on a separate sheet of notebook paper. START WITH FORMULAS, AND WORK IN LAYERS! After you are finished solving the problem, write a statement for your final answer. (Don't forget to use the correct units!)

Once you are all done, get on the computer, and create your own composite figure area problem.

To create the shapes in a word document, click on “View” at the top, scroll down to “Toolbars,” and click on “Drawing.” BE CREATIVE with your story and your diagram! ☺

You must (just like my example):

- Type your story
- Provide a diagram
- Include enough measurements on the diagram to solve the problem
- Work the answer out on a separate sheet of notebook paper