

On the back of this worksheet is an architectural drawing of a deck. Find the area and perimeter of the deck by dividing the region into shapes (for example: rectangles, trapezoids, squares, and triangles) and then calculating the area using the formulas you know. Show all of your work for all the calculations.

HINT: If the dimension is 5'6" it is NOT 5.6 feet. It is 5.5 feet.

1. Divide the region into shapes. Show this division on your copy of the deck on the back of this worksheet. In the space below, DESCRIBE the shapes you used and WHY you divided the region the way you did.
2. Find the area of the upper deck.
3. Find the area of the main deck.
4. Find the area of the steps (3 sets).
5. Find the total area of the deck and stairs.
6. Find the perimeter of the entire deck (just around the outside). Use the properties we learned about triangles when finding the lengths of the diagonal line segments.