

Name: _____

620 Scale Drawing Project
30 points DUE MONDAY 5/23

Use your mathematical knowledge to create a floor plan.

Step 1

You may use the site: <http://www.homestylor.com/designer> **to lay out your floor plan.**

Step 2

•Draw a scale plan for a house with a ratio 1 inch = 4 feet.

•The house must be **exactly 1500 square feet**. (Remember to find the area of a rectangle, multiply length by width.)

•It must have a kitchen, a living space, at least one bedroom and at least one bathroom. It is up to you to lay out the floorplan (rooms, hallways and closets.) You should include windows and doorways.

Your floor plan should be neatly drawn using a ruler.

Step 3

• Determine the dimensions of each room. Express your dimensions as length x width (in feet) and determine the area of each room in square feet. Be careful if your rooms are not rectangular, we will need to use special formulas.

Step 4

• Pick one room to paint. One gallon of paint covers between 250 and 400 square feet. Determine the surface area of the walls, subtracting for windows and doorways. Determine how much paint you will need. You may use the site http://www.glidden.com/Tools/PaintCalculator?wt.mc_id=g15ps-nb&wt.tsrc=Paid%20Search&gclid=CPv0geb9wMwCFUEkhgod01oA5w to help you but you must show your calculations on a separate piece of paper.

We will work on the project in class on Wednesday 5/18 and Thursday 5/19.

It is due on Monday 5/23. You should turn in :

1. Your scale drawing – done on graph paper, using a rule - neatly labeled with dimensions and room titles.
2. Your calculations of total square footage. Break this down by room then add the areas to reach 1500 square feet.
3. Your calculations of the cost to paint one room.

If you used the homestyler program, you may also print out a copy of your floor plan.