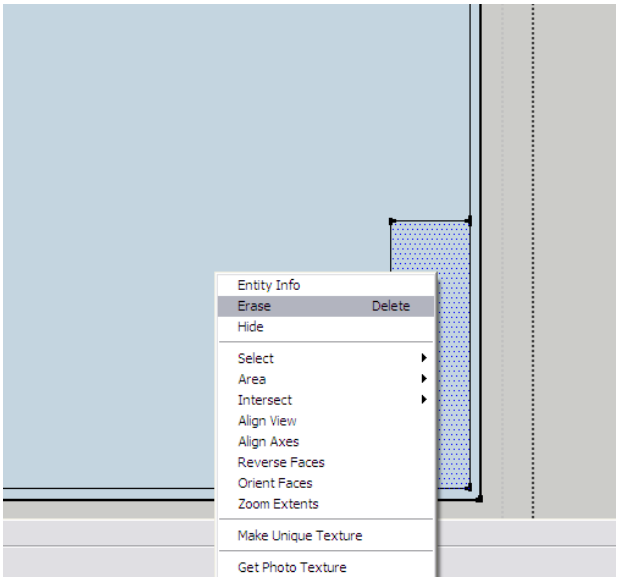
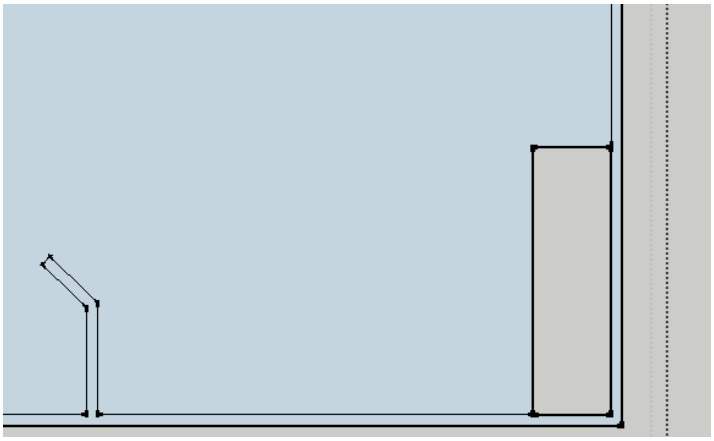
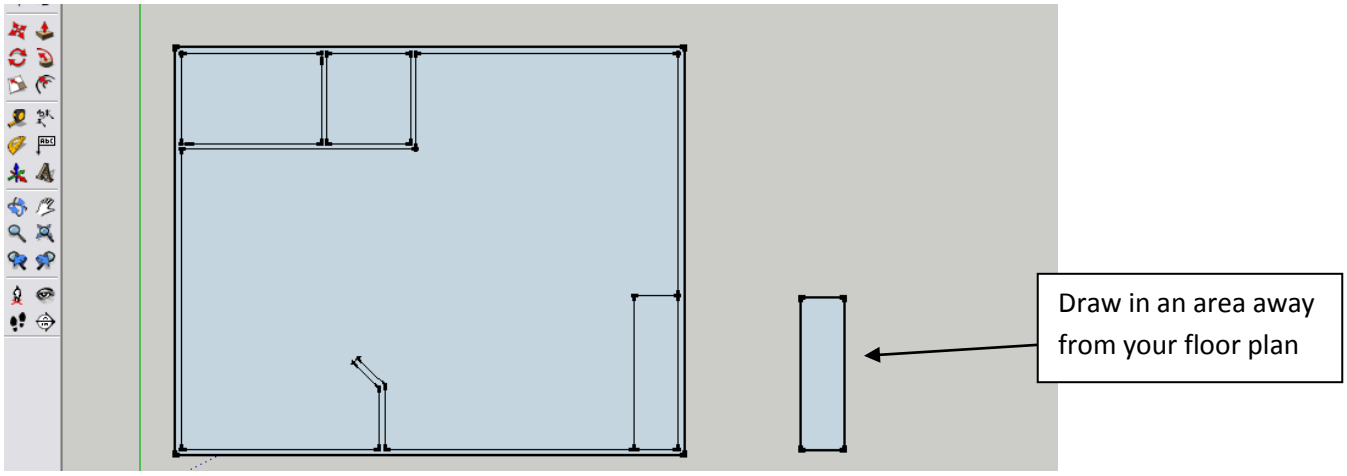
Creating Stairs with Sketchup

1. Decide on a location for your stairs on your floor plan.
2. Double click to ***Modify Component***.
3. SECOND FLOOR ONLY - Draw a rectangle of 42” x 144” (12’). Click to select the area, then **Right Click > Erase (Delete)**.
4. FIRST FLOOR only - Draw a rectangle of 42” x 144” (12’). DO NOT DELETE THE AREA.
   Be sure both architects are using the same space on your respective floors!





5. Draw a 42” x 144” rectangle in an area away from your floor plan.



6. You will need to divide the “Run” (144”) that will give you a tread (the part of a step that you step on) of about 10.5”. 144 ÷ 10.5 = 13.7. Add one step for the landing = 14.7

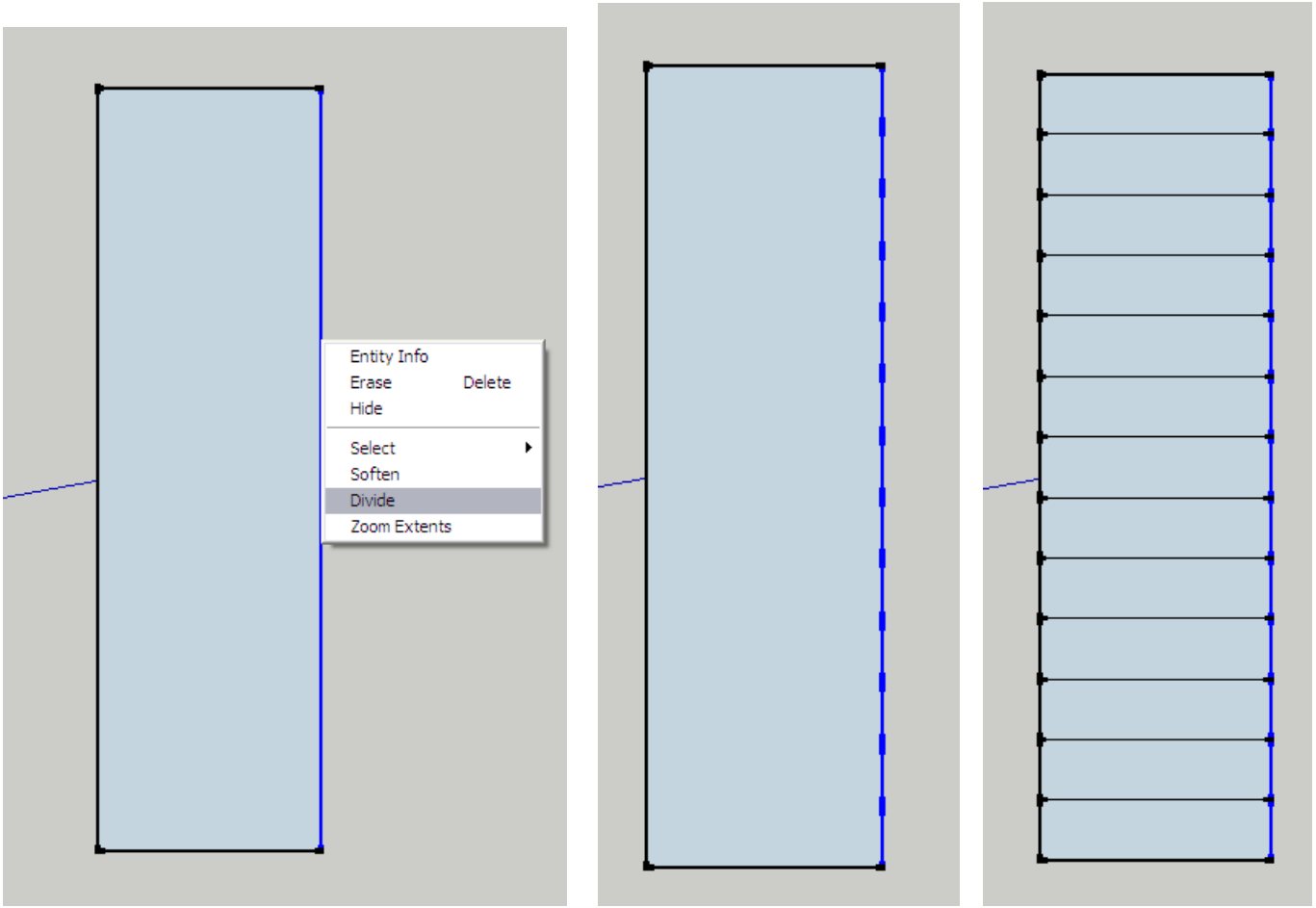
   We also need to determine the tread width using 14 and 15 (don’t forget – we need to add a step for the landing!), to see which will work best. Tread width should be between 10.25” to 10.75” for a standard stair case.
   144 ÷ 14 = 10.28
   144 ÷ 15 = 9.6

   Looks like 14 steps works best.

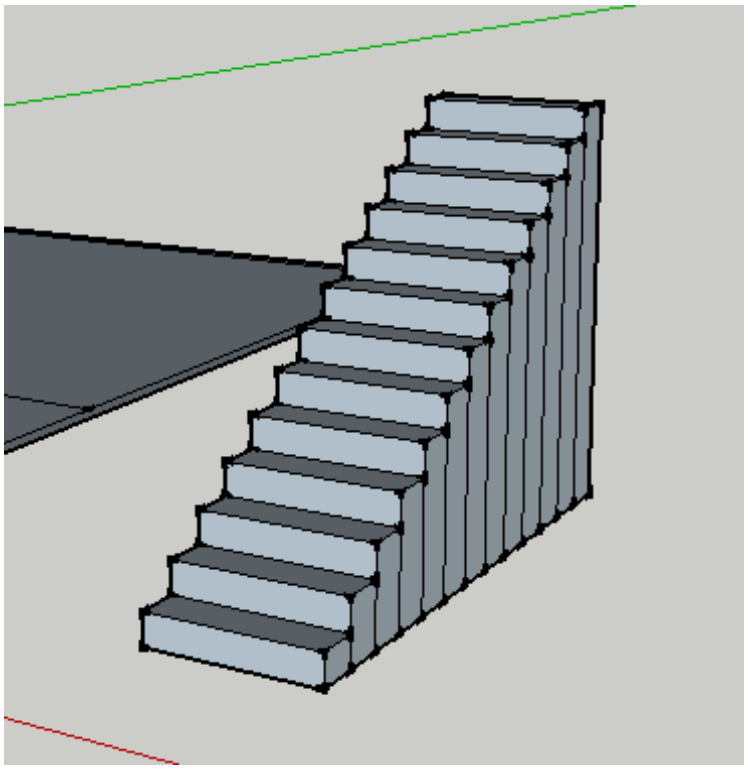
   The “Rize” is 108” (102” + 6” floor). We need to divide 108 by 14 (13 stairs and the landing on the 2nd floor). 108÷14=7.7 . Somewhere between 7.5” and 7.75” is ideal.

   So, we have a riser height of 7.7”, and a tread width of 10.5” – fine for a standard staircase.

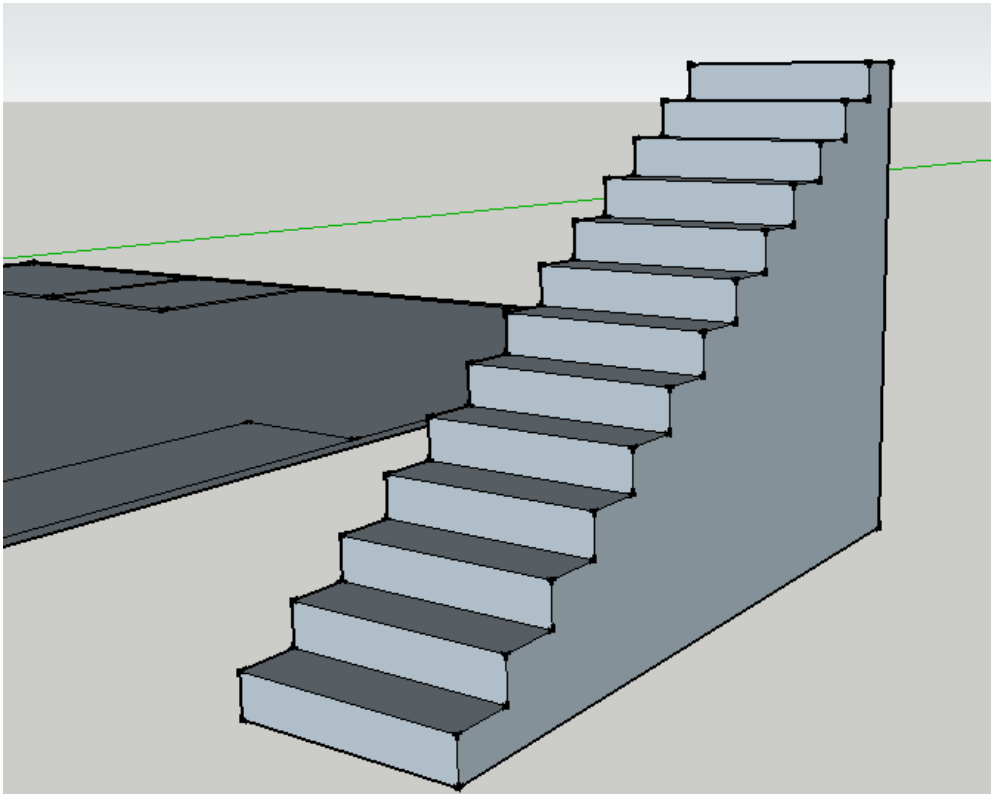
7. Select one of the side lines**. Right Click > Divide > 13**. This will give you 14 stairs – 13 in the stair case, and use the second floor as the final stair. Draw the horizontal lines for the stairs.



8. Use **Push/Pull (P)** to pull each tread up **7.7”.** You can double-click using the **Push/Pull** tool to ***reenter*** the last number.



9. Erase the unneeded lines.



10. Finish your stairs buy creating the offset under each tread. The tread board is ¾ “, and it is offset ¾”.