

**Lesson Summary**

Scale Drawing Process:

1. Measure lengths and widths carefully with a ruler or tape measure. Record the measurements in an organized table.
2. Calculate the scale drawing lengths, widths, and areas using what was learned in previous lessons.
3. Calculate the actual areas.
4. Begin by drawing the perimeter, windows, and doorways.
5. Continue to draw the pieces of furniture making note of placement of objects (distance from nearest wall).
6. Check for reasonableness of measurements and calculations.

**Problem Set****Interior Designer**

You won a spot on a famous interior designing TV show! The designers will work with you and your existing furniture to redesign a room of your choice. Your job is to create a top-view scale drawing of your room and the furniture within it.

- With the scale factor being  $\frac{1}{24}$ , create a scale drawing of your room or other favorite room in your home on a sheet of  $8.5 \times 11$ -inch graph paper.
- Include the perimeter of the room, windows, doorways, and three or more furniture pieces (such as tables, desks, dressers, chairs, bed, sofa, ottoman, etc.).
- Use the table to record lengths and include calculations of areas.
- Make your furniture “moveable” by duplicating your scale drawing and cutting out the furniture.
- Create a “before” and “after” to help you decide how to rearrange your furniture. Take a photo of your “before.”
- What changed in your furniture plans?
- Why do you like the “after” better than the “before”?

	Entire Room	Windows	Doors	Desk/ Tables	Seating	Storage	Bed		
Actual Length:									
Actual Width:									
Scale Drawing Length:									
Scale Drawing Width:									

	Entire Room Length	Desk/Tables	Seating	Storage	Bed		
Actual Area:							
Scale Drawing Area:							

