

## MTH 203: Room Decoration Project

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You may work in a group (up to 4 people total) on this project or you may work alone. You will hand in one project with all of your names on it. For this project, you will be determining how much flooring, paint, and baseboard molding you will need to redecorate a room. You will also be gathering information about specific products and will be calculating a final cost for this project. You will need a tape measure and a calculator to complete this project.

To begin with, select a room to “redecorate.” It may be any room, anywhere, but you have to tell me where the room is, what it is used for, and why you selected this particular room to “redecorate.” Your whole group will use the SAME room. You will need to determine and record the length, width, and height of the room. **You should also determine and record the measurements for any doors and windows in the room.**

Once you have recorded all of the measurements in the room, you will need to calculate how much flooring, paint, and baseboards you will need to buy in order to redecorate the room. You should also determine the type of flooring you would like to have added (carpet, hardwood, linoleum, etc.) as well as how many coats of paint you expect would be needed and whether or not primer is necessary. (The number of coats needed may depend on the current color of the room and the color you intend to paint it. Whether or not primer is needed may depend on the quality of the current paint or other wall-covering.)

After making these decisions, you will need to go to a home improvement store (such as Home Depot or Menards) to actually pick out flooring, paint, and baseboards for this project. While doing this, you should keep in mind that with carpet, for example, one dimension is fixed. Therefore, knowing the square footage of your room may not be sufficient. Also, you may want to use the rule of thumb that one gallon of paint will cover approximately 400 square feet, in determining how many gallons of paint you should buy. Feel free to talk to the employees at the home improvement store for help, if you need it.

You will need to turn in a report explaining the details of your project, how you came up with your calculation and your conclusions, and a final analysis of the cost. You should make sure your report includes:

1. An explanation of your room, as described above.
2. An accurate scale drawing of your room, marking all doors and windows.
3. The amount of flooring you will need and the cost for the flooring you will need to buy.
4. The amount of paint that you will need and the cost for the paint that you will need to buy.
5. The amount of baseboards that you will need and the cost of the baseboards that you will need to buy.

Remember, you will need to show all your calculations and explain what you are doing and why you are choosing to do it. You will be graded not just on the correctness of your answer but also on how well I can follow your work. Be sure to clearly indicate your units!

Your written report should be typed, but your scale drawing and/or calculations may be handwritten **into the body** of the report. (Please do NOT staple the scale drawing and/or a calculation page to the end of the report.)