

Advanced Challenge Level 1 Problem #48

Interior Design Challenge

Imagine that you are going to be moving into a new house. Your parents have told you that you will have your own bedroom. You have to design how the bedroom will look. The room you are given is rectangular in shape, 12 feet long and 9 feet wide. The distance from the floor to the ceiling is 8 feet. The ceiling is ceiling tiles, which need to be painted. The walls are sheet rock. You may choose to paint them or to wall paper them. The floor is plywood. You may choose to have carpeting installed, or to have sheet vinyl installed. You will need some molding around the room where the walls and ceiling meet. This molding can be made of wall paper or of wood. Wooden molding comes in a variety of shapes and sizes.

Your challenge for this project is to design the interior of your bedroom and to estimate the total cost of your design. You will have to do a lot of research for this project.

- You will have to research ceiling paint. You will need to find out how much paint you will need to paint the ceiling. This will include deciding how many coats of paint will need to be applied to the ceiling tile. (Better quality paint might cost more per gallon, but it may require fewer coats.)
- You will need to research wall paint, if you decide to paint the walls. This is similar to the ceiling paint except that walls are often painted in a wider variety of colors. (Ceilings are usually white or cream colored.)
- You will need to research wallpaper, if you decide to use it on the walls. Wall paper is sold by the 'double roll'. You will need to find out how many double rolls you will need and the cost per double roll. The cost will vary depending on the style and quality of the wall paper you decide to use. You can buy border for most wall papers on the market. You will have to decide how many feet of border you will need, if you choose to use it.
- If you chose to use a wooden molding around the ceiling, there are several styles which you can pick from. You will need to decide how many feet you will need. The cost per foot varies depending on the style you pick.
- You will need to research the type and quality of the flooring you wish to use. Flooring is usually sold by the square yard. There are many choices to be made here, and prices can vary greatly depending on the choices you make. If you decide to have wall-to-wall carpeting installed, you will also have to decide whether or not you will have a pad installed under the carpeting.

This is not intended to be a group project. Each student must have their own individual interior design for their room. You may, however, work in groups of your own choosing in order to do the necessary research or to get ideas. Your finished report should include a description of what the room will look like when finished, the quantity of products needed, and the cost.