

Area—Consumer and Family Resources
Scenario—Calculating Wall and Floor Coverings

Standards

SD FACS Standards

FCS 7.1.6

Implement decisions related to housing and furnishings based on the needs of individuals and family members.

SD Mathematics Standards

Math 8.M.1.1

Students are able to apply proportional reasoning to solve measurement problems with rational number measurements.

Math 8.M.1.2.

Students are able to find area, volume, and surface area with whole number measurements.

What will you do?

You will react to the given scenario on purchasing floor and wall coverings for a room.

What is the scenario?

You are an interior designer at Floor 2 Ceiling & Beyond. New clients have asked you to show them floor and wall coverings for their newly re-modeled family room and give them a bid on the price of these additions. The family would like to see the comparison between carpets and laminate wood flooring and a comparison between paint and wallpaper for the walls. They are on a budget, so they would prefer moderate quality floor and wall coverings in a medium price range.

How will you do this?

1. Study the scenario given and complete the scale drawing of the family room you have been asked to bid. Determine the amount of floor and wall coverings needed for the room. You will base your calculations on the room's square footage without considering doors or windows.
2. Use resource materials to gather information about prices for floor and wall coverings in the family's price range.
3. Use class activities and previous knowledge to calculate the cost of the room's floor and wall coverings. For the scenario, assume the wallpaper has 0"-6" repeat length and two coats of paint will be needed. Illustrate the results of your calculations on the wall and floor coverings comparison chart given.

4. Submit a "bid" for the cost of the proposed room additions using the bid worksheet given.

What will you need?

Floor plan worksheet
Wall and floor coverings comparison chart
Bid worksheet

How will you be evaluated?

Scenario rubric

Resources

Internet access
Catalogs, sale flyers, and newspapers
<http://www.seabrookwallpaper.com/ideas/how-to-measure.aspx>