

Name _____

Remodeling

You are planning to remodel/redecorate your family room. The dimensions of your room are:

Length: 15 ft

Width: $12\frac{1}{2}$ ft

Ceiling: 8 ft

First the walls will be painted. A gallon of paint costs \$35.00 and covers 400 square feet. A quart of paint costs \$12.00 and covers 100 square feet. There are three obstacles in the room: two windows and a doorway. Each window has dimensions of 2 ft X 4 ft, and the doorway has dimensions of 7 ft X $2\frac{3}{4}$ ft.

- 1) Determine how much wall space there is in the room. Do not include the windows and doorway. Show your work.

- 2) If you need to apply two coats of paint, how much will it cost to paint the room? Show your work.

Next, we are putting in flooring. We have chosen a hardwood flooring that costs \$3.68/square foot.

- 3) How many square feet of flooring do we need? Show your work.

- 4) How much will the flooring cost? Show your work.

Finally, create a scale drawing of your room. Use the scale 1 inch = 2 feet. Include your windows and door (also drawn to scale). Add furniture to your room (does not need to be drawn perfectly to scale). Label the wall dimensions in both inches and feet. Do this on the back of this paper.