

Project: Your new mansion!

Company Name: _____

Interior designer(s): _____

Congratulations! You won a mansion! But now you need to put in new flooring and paint the walls of your mansion. To make sure you have the best looking place, you plan to hire an interior designer or two to help you plan and design.

Please do not rush through your calculations. Be accurate, precise, and take pride in your work.

Part 1: Find the area of each room

Show your work (with labels!) to find the area of the foyer, kitchen, dining room, bedroom #3, living room, bathroom, bedroom #2, closet, master bedroom, master bathroom, and hallway. (Hint: To find the hallway area, take the total area of the mansion and subtract the area of each room.)

Part 2: Figure out how much flooring will cost

The designers decide on a specific set of flooring which costs the amounts below:

Carpet: \$8.91/m²

Tile: \$13.32/m²

Wood: \$22.63/m²

How much does it cost to put flooring in the mansion if you install:

Carpet: In bedroom #2, bedroom #3, and closet

Tile: In the kitchen, foyer, bathroom, and master bathroom

Wood: In the dining room, hallway, living room, and master bedroom

Part 3: Figure out how much paint will cost

Paint costs \$12.00 per gallon, and each gallon covers 150 m² of wall space. If the walls in the mansion are 10 feet high, and you need to paint each wall and the ceiling, how much money will you spend on paint? Just so you know, the designers decided on custom doors for all your rooms that will *not* require paint.

Grading Rubric:

____/5 pts – **All materials *stapled* in order:**

1. Cover Sheet (Mandatory: Add/draw pictures and decorate! Be creative!)
2. Calculations page for area (*Optional: Add/draw pictures and decorate!*)
3. Calculations page for flooring (*Optional: Add/draw pictures and decorate!*)
4. Calculations page for paint (*Optional: Add/draw pictures and decorate!*)
5. Reflection page (Each group member must complete a reflection on the attached worksheet.)

____/24 pts – **Calculations:** accurate, neat, and easy to follow

____/6 pts – **Overall project:** colorful, creative, obvious effort put into creating the final project

____/5 pts – **Group work habits and participation**

(may vary by group member if need be— each group member needs to turn in their evaluation separately)

____/40 **TEST** points – **Total score**

Group reflection

Each group member must answer the following questions:

What went well? What caused you the most trouble? What suggestions do you have for how I set up this project next year?

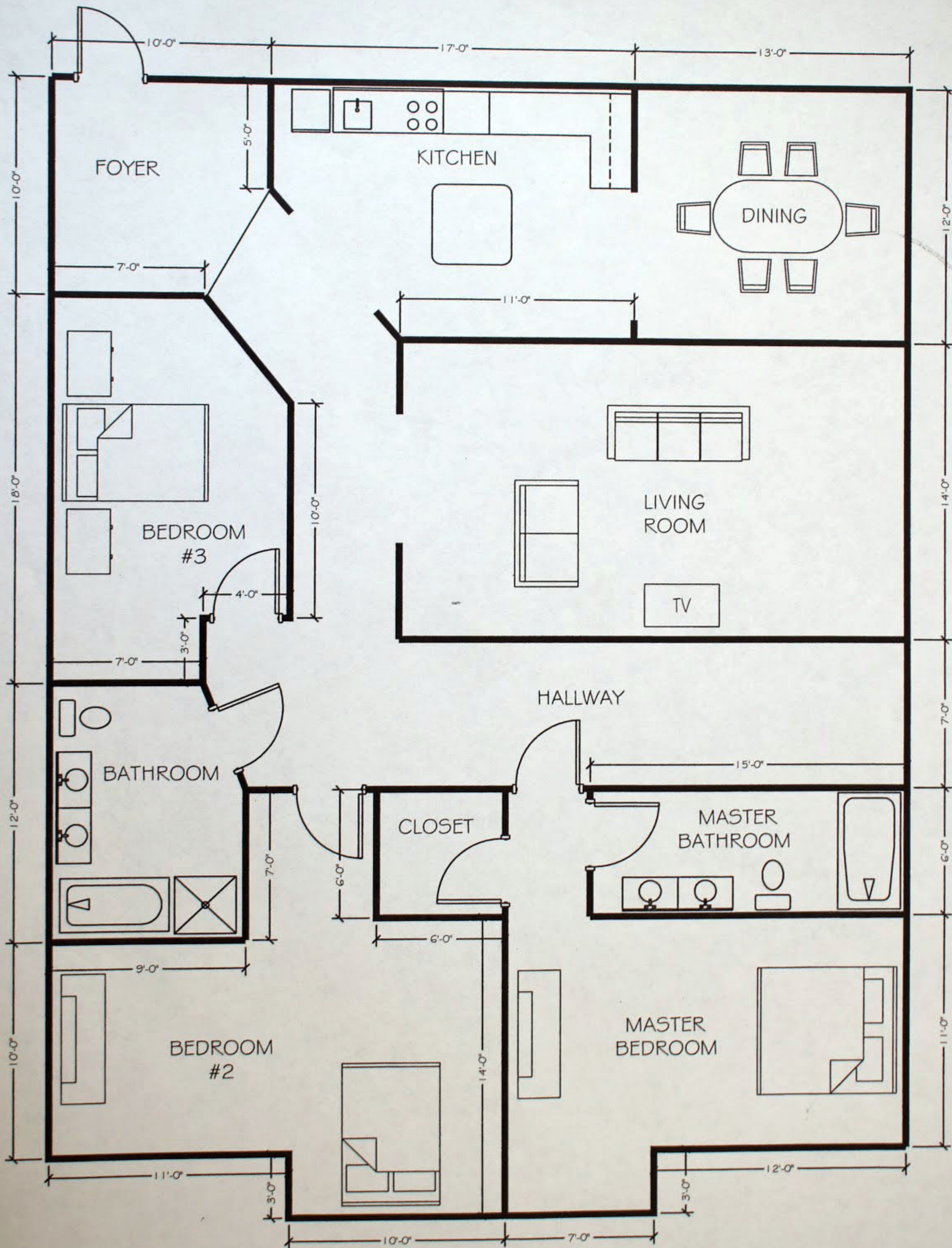
Each group member's response should be *at least* 5 sentences long.

Group member 1: Name _____

Group member 2: Name _____

Group member 3: Name _____

Group member 4: Name _____



Peer Evaluation

Name _____ Per. _____ Group# _____

Write the names of your group members in the numbered boxes. Then, assign yourself a score for each listed attribute. Finally, do the same for each of your group members and write the total scores in the bottom row.

Scores: 5 = Awesome! → 1 = Didn't do this

Attribute	Myself	1.	2.	3.
Participated in group discussion				
Helped keep the group <i>on task</i>				
Contributed <i>useful</i> ideas				
How much work was done				
Quality of completed work				
Total				

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