Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Design a House

Directions: You are in charge of designing your dream house.

* Using the grid paper, draw the outline of your house. Your house should only contain right angles.
* Next, partition your house into rectangles or squares for each room. Your house should have AT LEAST 5-8 rooms.
* Label each room.
* Determine the area of each room. (Area = length x width)
* Determine the perimeter of the house as a whole.
* Using the following charts, determine the cost of paint for three rooms.
* Using the following chart, determine the cost of carpet for two rooms.

You may use the space below to sketch your ideas before using the grid paper.

|  |
| --- |
|  |

Paint

|  |  |  |  |
| --- | --- | --- | --- |
|  | Home Depot | Menards | Lowes |
| Flat Finish(no shine and hard to clean) | $10 per ½ gallon | $12 per ½ gallon | $11.50 per ½ gallon |
| Satin Finish(silky shine and easy to clean) | $20 per ½ gallon | $21.50 per ½ gallon | $22 per ½ gallon |
| Semi-Gloss Finish(shiny, easy to clean but shows every dent or imperfection) | $17 per ½ gallon | $15 per ½ gallon | $16.50 per ½ gallon |
| Gloss Finish (very shiny but can make the walls look like plastic, easy to clean) | $15 per ½ gallon | $14.00 per ½ gallon | $16 per ½ gallon |

\*\* ½ gallon of paint = 0-15 square feet

\*\* 1 gallon of paint = 16-30 square feet

\*\* 1 ½ gallon of paint = 31 or more square feet

\*\* Lighter colors require 2 coats of paint

Flooring

|  |  |  |  |
| --- | --- | --- | --- |
|  | Home Depot | Menards | Lowes |
| Hardwood  | $2.50 per square feet | $2.75 per square feet | $2.25 per square feet |
| Carpet  | $1.50 per square feet | $1.25 per square feet | $1.75 per square feet |
| Linoleum | $1.25 per square feet | $0.75 per square feet | $1 per square feet |
| Tile | $2 per square feet | $1.75 per square feet | $2.25 per square feet |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Length(in feet) | Width(in feet) | Total Area(in square feet) |
| Room 1 |  |  |  |
| Room 2 |  |  |  |
| Room 3 |  |  |  |
| Room 4 |  |  |  |
| Room 5 |  |  |  |
| Room 6 |  |  |  |
| Room 7 |  |  |  |
| Room 8 |  |  |  |

Paint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Total Square Feet | Number of Gallons Needed | Cost Per Gallon | Total Cost |
| Room 1 |  |  |  |  |
| Room 2 |  |  |  |  |
| Room 3 |  |  |  |  |
| Room 4 |  |  |  |  |
| Room 5 |  |  |  |  |
| Room 6 |  |  |  |  |
| Room 7 |  |  |  |  |
| Room 8 |  |  |  |  |

Total Cost for Paint: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Flooring

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Total Square Feet | Type of Flooring | Cost PerSquare Feet | Total Cost |
| Room 1 |  |  |  |  |
| Room 2 |  |  |  |  |
| Room 3 |  |  |  |  |
| Room 4 |  |  |  |  |
| Room 5 |  |  |  |  |
| Room 6 |  |  |  |  |
| Room 7 |  |  |  |  |
| Room 8 |  |  |  |  |

Total Cost of Flooring: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_