

# Hobby Hut Challenge

Name \_\_\_\_\_

## Part A: Let's Roll

1st Roll = Length    2nd Roll = Width

Box	L	W	Area
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

## Part B: Put It Together

1<sup>st</sup> - Draw the 10 boxes on a piece of graph paper.

2<sup>nd</sup> - Cut out each box and rearrange them to create your own "hobby hut" space.

*Notes:*

- Each box is an area of the hobby hut.
- Each box must touch at least one other box.
- Boxes cannot overlap each other.

3<sup>rd</sup> - Glue the boxes on the back of this paper to create your new space.

4<sup>th</sup> - Label each area along with a description of how the space will be used. You may add other details and drawings to personalize your space.

## Part C: Challenging Spaces

**Scale** → Each box measures \_\_\_\_ ft x \_\_\_\_ ft, which would equal an area of \_\_\_\_ sq. feet per box.

**Challenge 1:** According to [homeguide.com](http://homeguide.com), it costs between \$100-150 per square foot to build a home. How much will it cost to build your Hobby Hut? Show your calculations.

**Challenge 2:** You have saved up \$2000 from odd jobs and birthday money. Will you have enough to furnish the inside of your hut? If not, how could you reduce your costs and still get the hut you want? Make a list of all the items you'll need for each area inside the hut. Use online tools to estimate the costs for each. Create a Google Sheets to document the information and calculate your total cost for these items.

**Challenge 3:** Your hobby hut is infested with ants after you forgot to clean up your snacks. The exterminator recommends placing ant bait stations around the perimeter of your hut. The stations must be placed between 3 feet from each other. Based on this information, how many bait stations will you need?

# **My Hobby Hut**