

# Make a Game Room Floor Plan

Imagine that you are moving into a new home and you have a game room of the shape and size shown below. You want to plan the arrangement of your game room furniture before moving in. Use your knowledge of mixed numbers and improper fractions to make a plan.

- Decide how you would place the furniture.
  - Make a model of the room and the furniture where 1 foot equals 1 inch.

You will use your model to try different arrangements.

- How will you use addition and subtraction number sentences and comparisons to show if the arrangements fit?

- Make a sketch of your chosen arrangement.
  - Identify each item and its dimensions.
  - Be sure you do not block the door or the closet.

- Write a report about your project. Include the following:
  - What number sentences did you use?
  - How did you use comparing and ordering to find an arrangement that would work?
  - Include the sketch of your favorite arrangement.
  - Finalize your plan by coloring and decorating it.

Game Room Furniture	
TV	$5\frac{1}{2}$ feet long $3\frac{1}{2}$ feet wide
Refrigerator	$2\frac{1}{2}$ feet wide $2\frac{1}{2}$ feet deep
Gaming Table	4 feet long 4 feet wide
Recliner	$5\frac{1}{2}$ feet long $2\frac{1}{2}$ feet wide
Rug	4 feet long $2\frac{1}{2}$ feet wide

