

Designing A Floor Plan



You are in charge of setting up a floor plan of a family room. The room measures 20 x 17 feet, but you will layout your design on this 20 x 17 square centimeter grid to arrange your model floor plan.

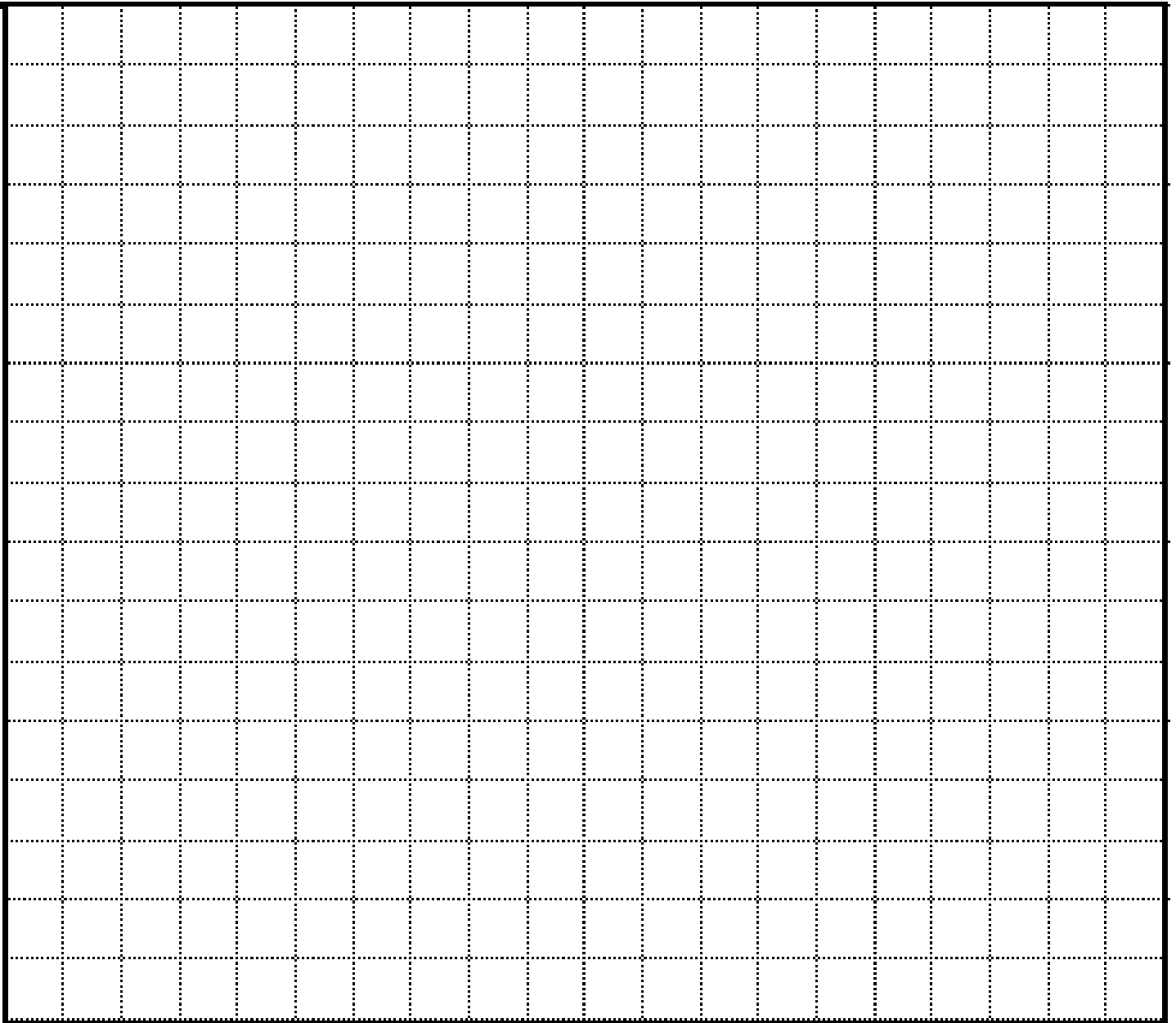
$$(1 \text{ sq. cm} = 1 \text{ sq. foot})$$

Your job as an interior decorator is to best organize the room with all of the following furniture items. (The area measure of each furniture item is given in centimeters.) The room must be organized to make sense for the family.

1. Arm Chair (2) - 9cm^2 each
2. Couch - 20 cm^2
3. Coffee Table - 8 cm^2
4. End Table - 4cm^2
5. Desk - 10 cm^2
6. Desk Chair - 4 cm^2
7. TV cabinet - 10 cm^2
8. Bookcases (2) - 14 cm^2
9. Lamps (2)- 4 cm^2 each
10. Plant Stands (2) - 4cm^2 each

NOTE: Remember, as long as the total area for each item remains the same, they may be placed in any polygonal shape. (Ex: the area of the couch: 20 cm^2 ...can be in the shape of 5×4 , 2×10 , etc...)

Floor Plan Grid



Be sure to color and label each item you place.