

CONSUMER MATHEMATICS 9

OCCUPATIONAL DIAGRAMS

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Perform the following activities.

3.10 List at least three considerations when determining room size.

a. _____

b. _____

c. _____

3.11 List the considerations when trying out various room combinations on graph paper with room templates.

FURNISHINGS

All you need to do to realize the importance of furnishings in making a house salable is to visit the model homes at a construction site. Professional interior decorators are able to transform even the plainest house into an attractive and appealing one. This appeal is achieved through the judicious and artistic blend of color, form, scale, and accents. Many houses have been sold on the basis of the manner in which they were furnished and decorated to accentuate their positive features and to minimize their negative features.

Most newly built and resold houses now have carpeting throughout the living areas. The living areas are the bedrooms, the living room, the dining room, and the connecting hallways. The family room may have carpeting. Some family rooms utilize a form of indoor-outdoor carpeting that can withstand much hard use.

The way to figure the cost of carpeting is to measure the rooms and the areas to be covered. Add the square footages obtained for all these rooms and divide this number by 9 to convert it to square yards. Carpeting is sold by the square yard and varies considerably in the ranges of quality, durability, and type (shag, looped, sculptured, or velvet), due to competition in the industry.

Shop around before you select your carpet, as with any purchase. What may sound like a good buy in terms of cost may prove not to be such a wise choice if after the carpet is installed, you discover that it detracts from the other furnishings or that it is shoddy in appearance.

Another thing to be particularly alert to in your carpet shopping is the quality of padding included in the price of installation. Many so-called bargains become less so because the padding underneath the carpet is too thin and too cheaply constructed.

Model 1: Rooms to be carpeted:
 Living room 18'0" by 12'6";
 1 bedroom 11'0" by 10'6";
 2 bedrooms 10'6" by 10'0" each; and
 hallway 21'0" by 4'6".
 Cost of carpeting with padding
 and installation \$9.95 per
 square yard.

Find the cost of carpeting required.

Room areas:	225	ft. ²
	115.5	
	210	
	94.5	
	<u>645.0</u>	ft. ²

$645 \div 9 = 71.67 \text{ yd.}^2$

Cost = $71.67 \times \$9.95 = \713.12 ,
 tax not included.

Model 2: Before signing the purchase order for the carpet and padding in the previous problem, you decide that you like the carpeting, but that you would like a heavier padding. You find that heavier padding costs an additional \$1.25 per sq. yd. How much is the total cost now?

Cost = $71.67 \times (\$9.95 + \$1.25)$
 = $71.67 \times \$11.20 = \802.70 .

Furniture placement is handled by the same technique as room placement. *Templates* of the various furniture pieces are prepared. Figure 7 shows some of the more representative pieces with some of the more popular sizes.

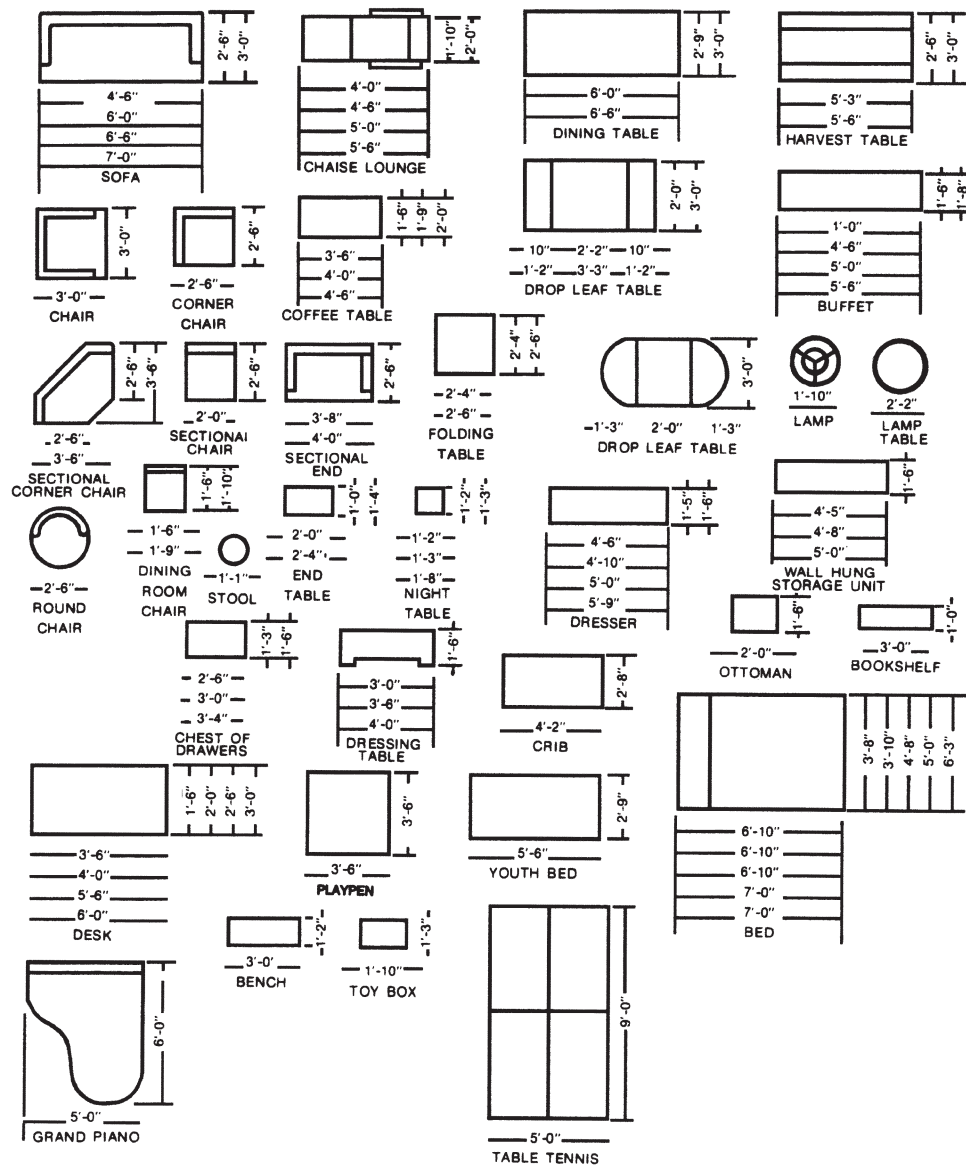


Figure 7: Furniture Templates

A sheet of graph paper is marked according to the dimensions of the room being studied and the scale selected.

The appropriate furniture is then placed in the room to conform to window, door, and closet locations and to proper clearances (distances between pieces of furniture). For example, for the living room the recommended minimum clearances are as shown in Figure 8.

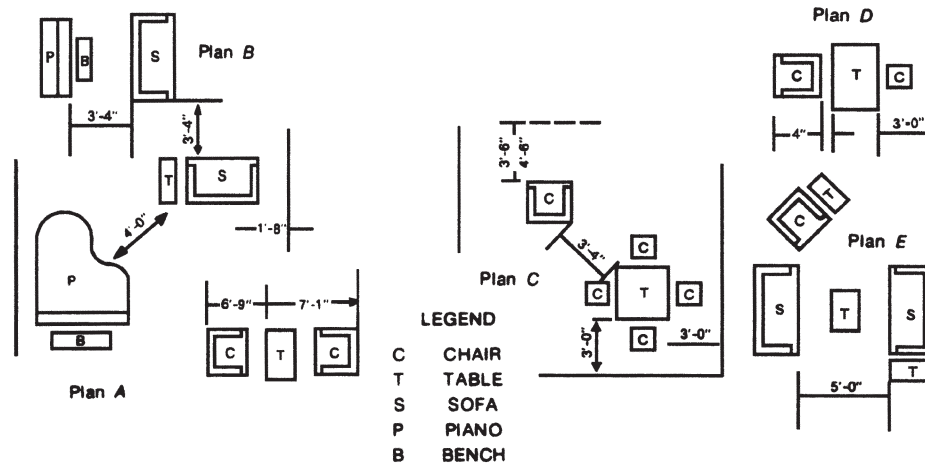


Figure 8: Living Room Clearances

The bedroom has one critical dimension, the clearance around the bed. At least twenty inches should be provided on both sides of the bed and at the foot of the bed.

An important dimension in the kitchen is the "work triangle," shown in Figure 9.

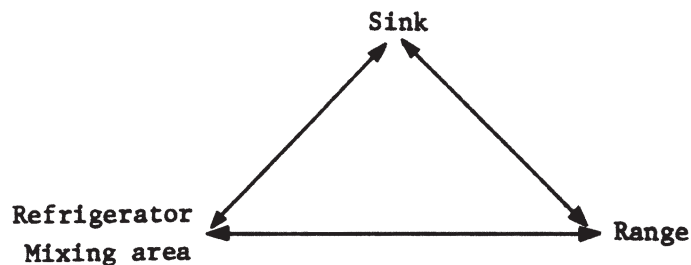


Figure 9: Work Triangle

The work triangle should have a perimeter of about seventeen feet.

Match these items.

- | | | |
|------|---------------------------------------|---------------------------------------|
| 3.12 | _____ template | a. 20" |
| 3.13 | _____ graph paper | b. 17' |
| 3.14 | _____ minimum clearance
around bed | c. pattern |
| 3.15 | _____ perimeter of work
triangle | d. room dimensions are
drawn on it |
| | | e. 24" |

Select the appropriate letter to complete each statement.

- 3.16 In figuring the cost of carpeting a room, divide the square footage of the room by _____.
a. 12 b. 3 c. 9 d. 6
- 3.17 Before placing furniture in a room, you need to consider _____.
a. window, door, and closet locations
b. color and type of wall covering
c. number of electrical outlets
d. types of curtains in the room
- 3.18 In planning the kitchen, you should keep in mind _____.
a. the food to be prepared
b. the number of cabinets
c. the location of the refrigerator
d. the work triangle

COST-SAVING GUIDELINES

Even with high inflation the person furnishing his home can achieve modernization at a reasonable cost in a number of ways.

You add character to a room by avoiding monotony in color. Mixing colors and styles can create varying moods in a room thereby maintaining the room's uniqueness.

Wallpaper has recently become popular again because with modern adhesives, you