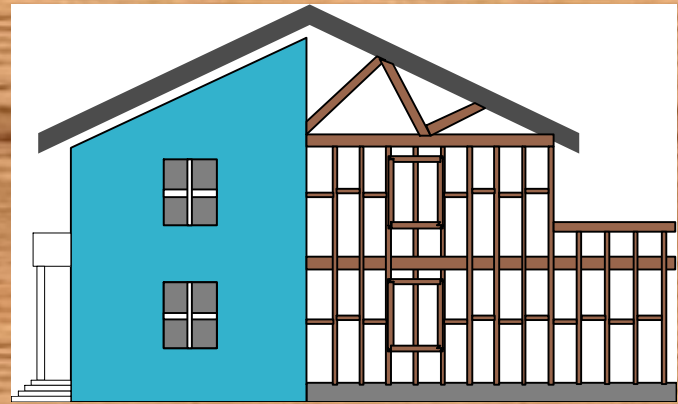
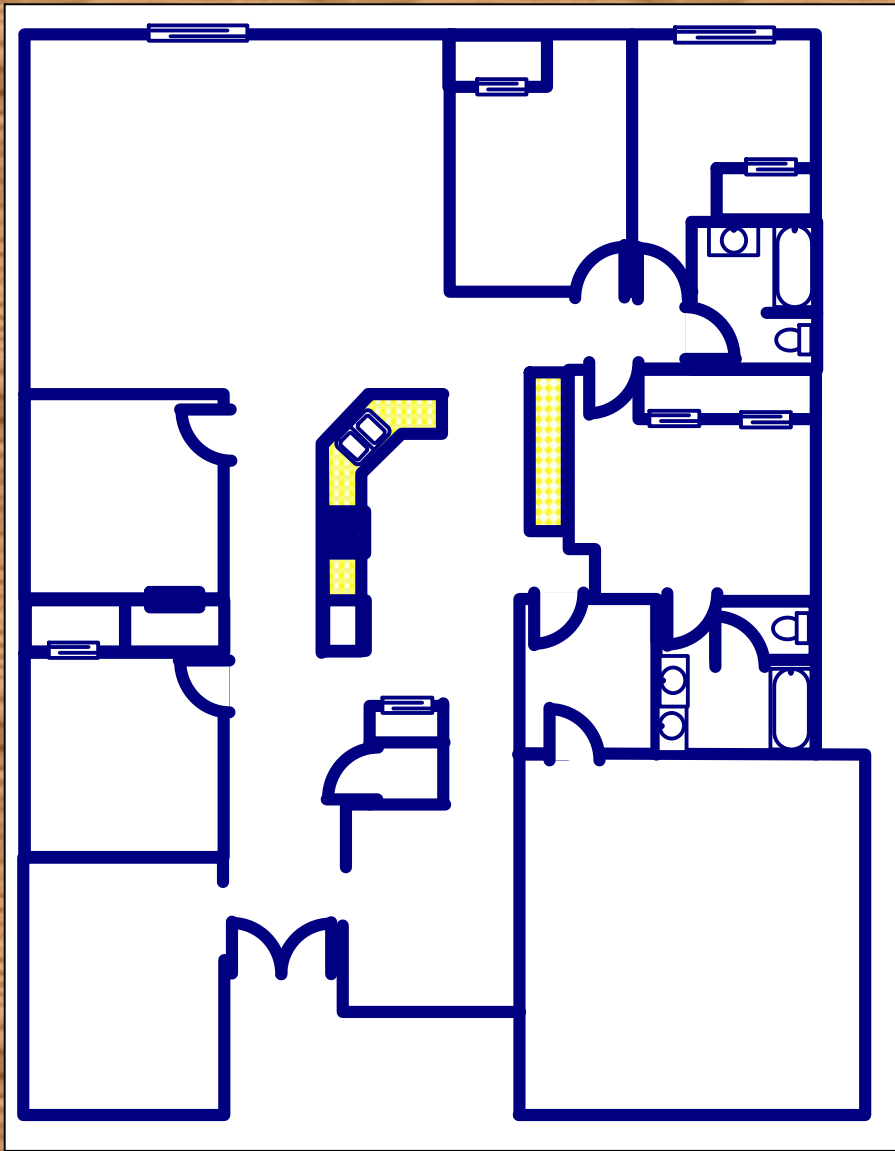




DESIGNING

A

HOME



By Nancy L. Wilkinson

Lesson Seven Finding the Area of a House

Objective: Students will find the area of a house based on the design

Materials:

Several home designs from the newspaper, magazine or home builder
An example of a home design is included on the next page

Activity Six Review:

If you were a homebuilder, when would you want to figure area or volume? (Some examples for figuring area are: room sizes, floor covering, painting and lumber needs. Examples for figuring volume are: septic tanks, sinks, water heater sizes, heating and cooling)

Activity:

1) Pass out the home designs. What do you notice is common to the homes? What are the normal sizes of different rooms? (Write the average sizes of rooms such as: bedrooms, kitchens, garages, bathrooms, closets, etc.) Some examples of approximate sizes are:

Garages: 22 feet deep x 10 feet width for each car

Kitchens:

Stove: $2\frac{1}{2}' \times 2\frac{1}{2}'$

Sink $3' \times 2'$

Refrigerator $3' \times 2\frac{1}{2}'$

Table $4' \times 4'$

Bedroom

Double Bed $6' \times 5'$

Dresser $4' \times 1\frac{1}{2}'$

Closet 3' deep

Living Room

Couch $6' \times 3'$

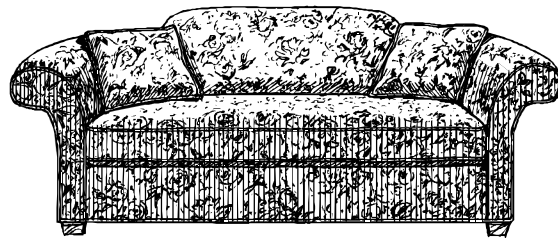
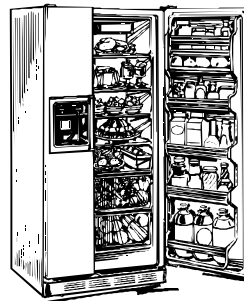
Chair $2\frac{1}{2}' \times 3'$

Bathroom

Bathtub $5' \times 2\frac{1}{2}'$

Sink $3' \times 1\frac{3}{4}'$

Toilet $1\frac{3}{4}' \times 2\frac{1}{4}'$

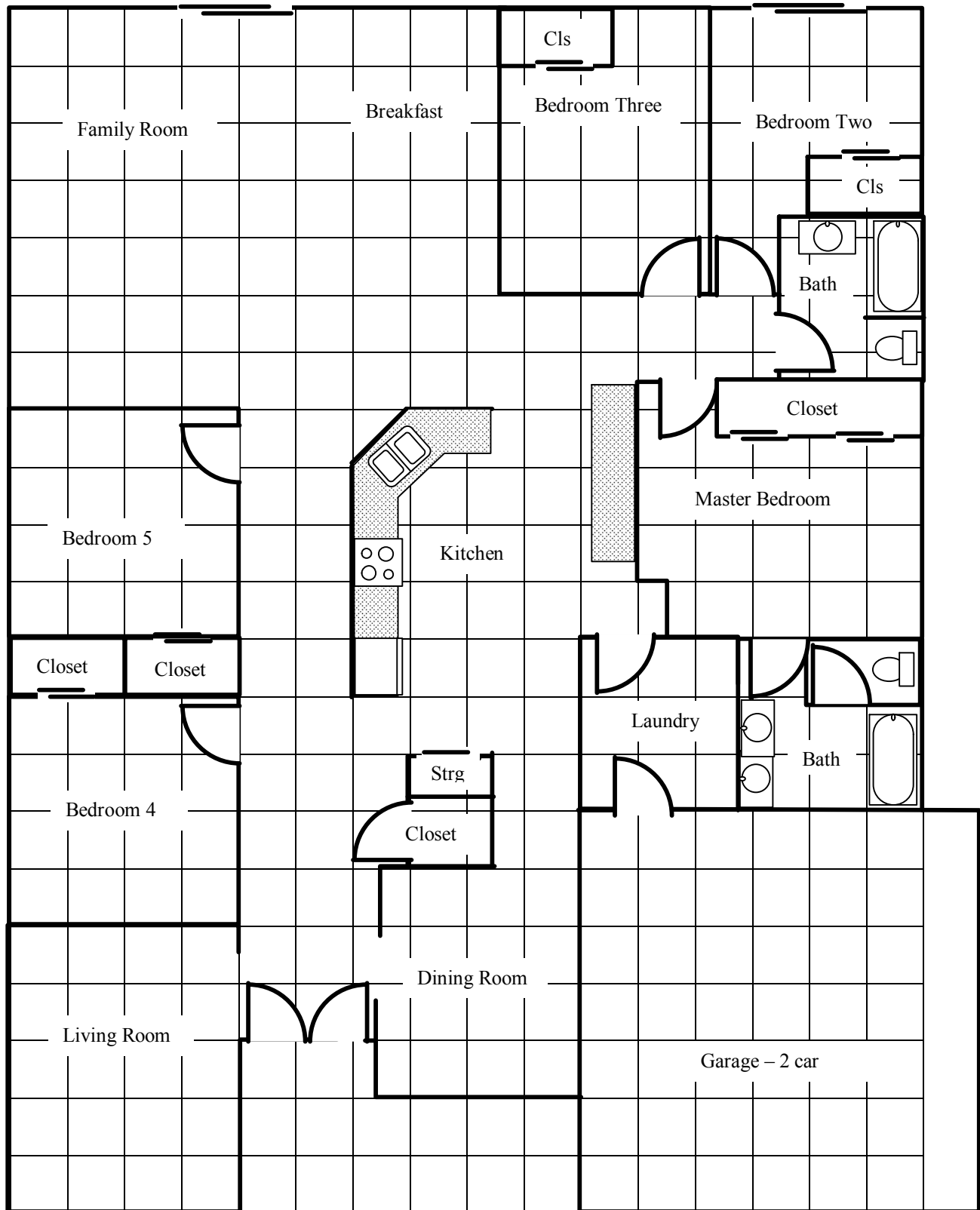


2) Write down the room name and the size of each room in the home design. How would you figure the total area? (*Students should figure the square footage of each room and then add up the areas for each room.*) Figure the total square footage of the home.

Closure:

Students may discuss what they like or dislike about the house design. What would you do to make it more suitable for your needs? What would you like in your home?

Each square is approximately 3' x 3'



Each square is approximately 1cm x 1cm
Each square is approximately 2' x 2'

