



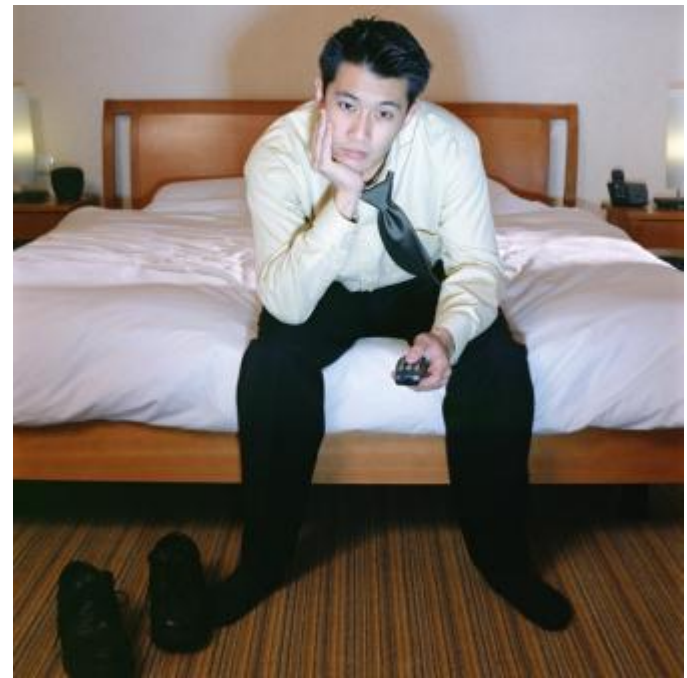
Room Sizes and Relationships

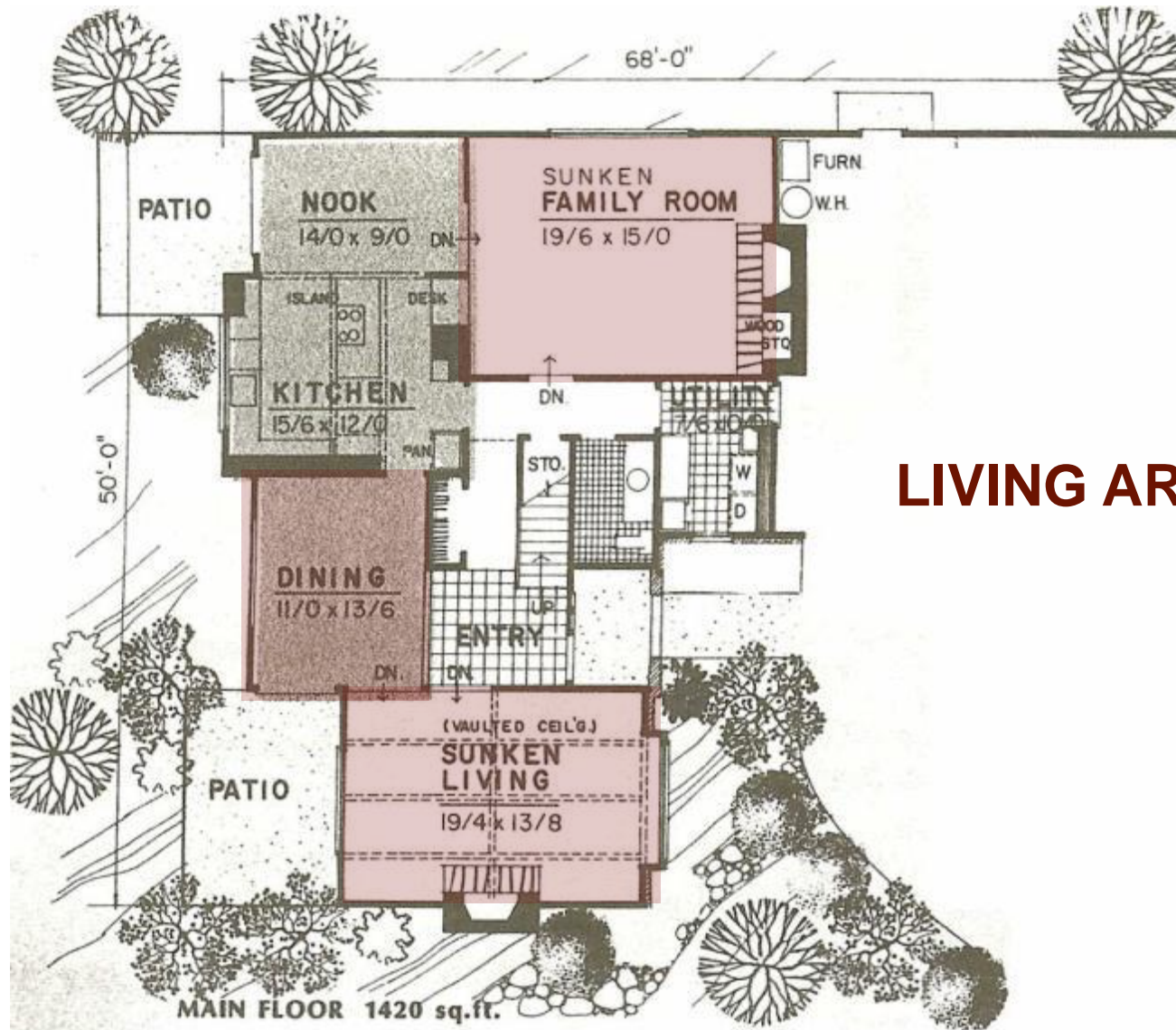
Gateway – Unit 7 – Green Architecture

Room Relationships

Three Areas

- Living Area
- Sleeping Area
- Service Area

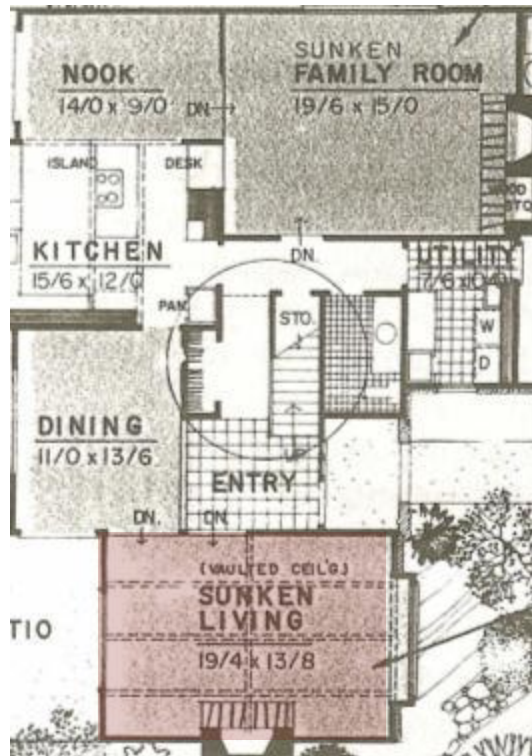




LIVING AREAS

Living Area

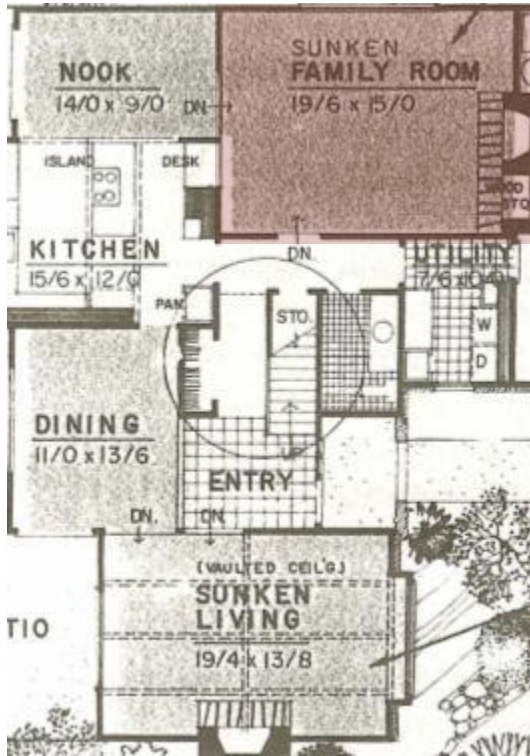
Formal Living Area



- Guest entertaining
- Quiet conversation
- Near entry
- General size 13' x 18'

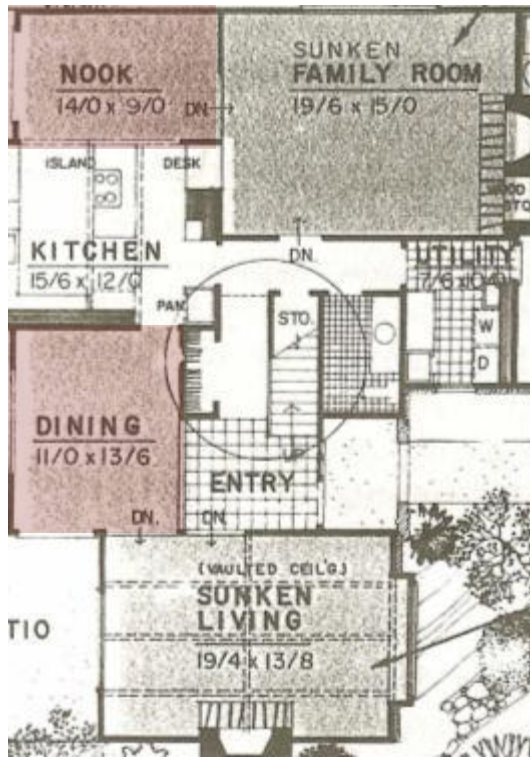
Living Area

Informal Living Area



- Guest entertaining
- Family entertaining
- Everything room
- General size 13' x 16'

Living Area



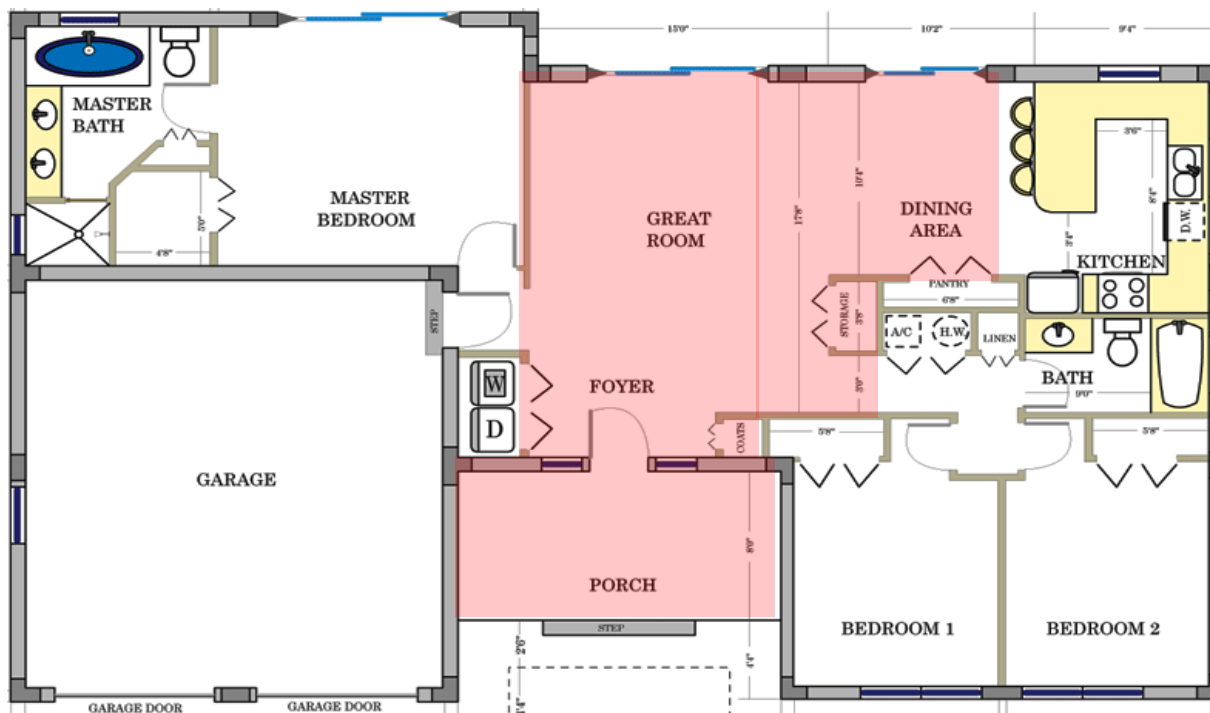
Dining Room

- Easy access to living and kitchen
- Nook for smaller spaces
- Casual dining room 9' X 11'
- Formal dining room
- General size 11' x 14'



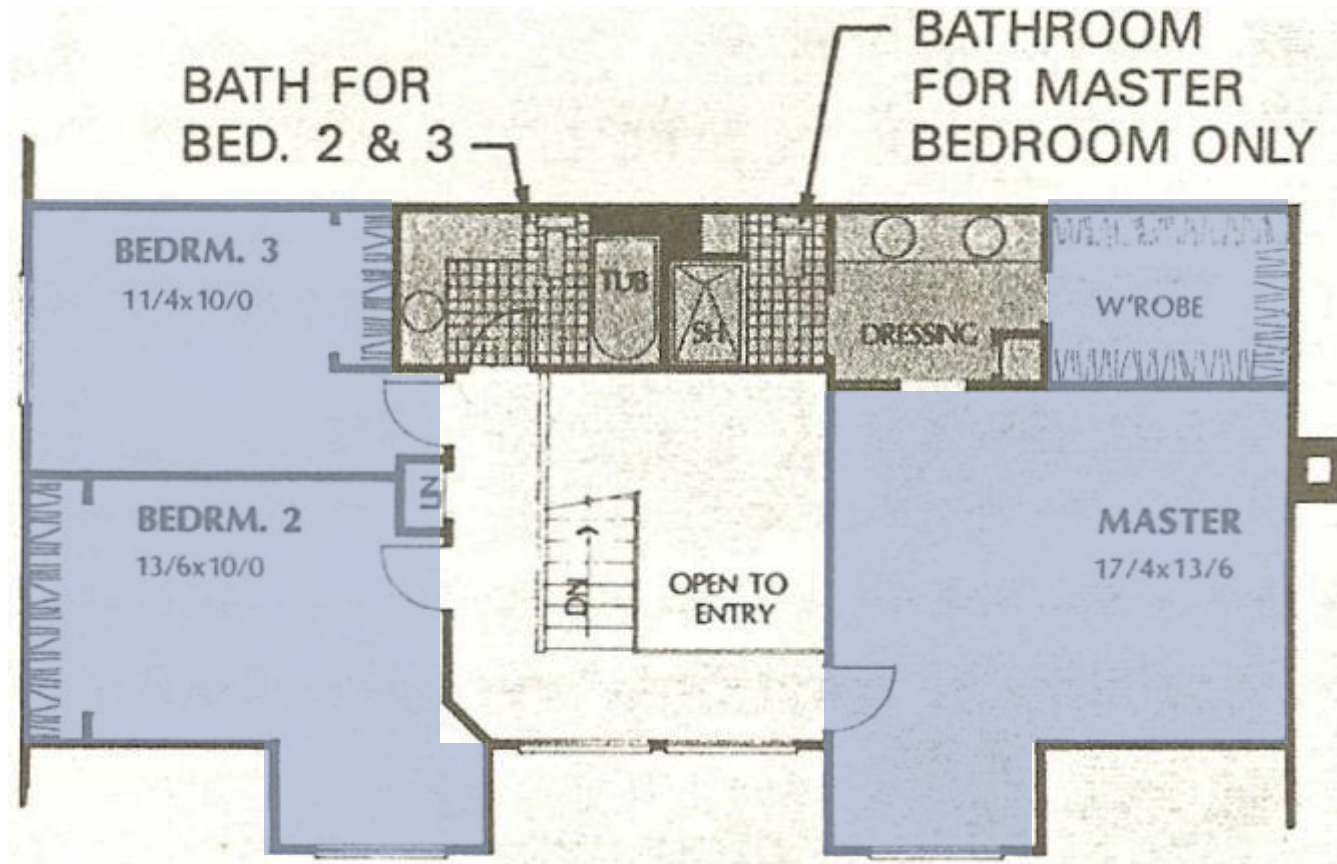
Living Area Characteristics

- Residents and guests play and relax here
- Natural light and scenic views are desirable (except in a home theater)
- A formal entrance or foyer is placed in or near the main living space

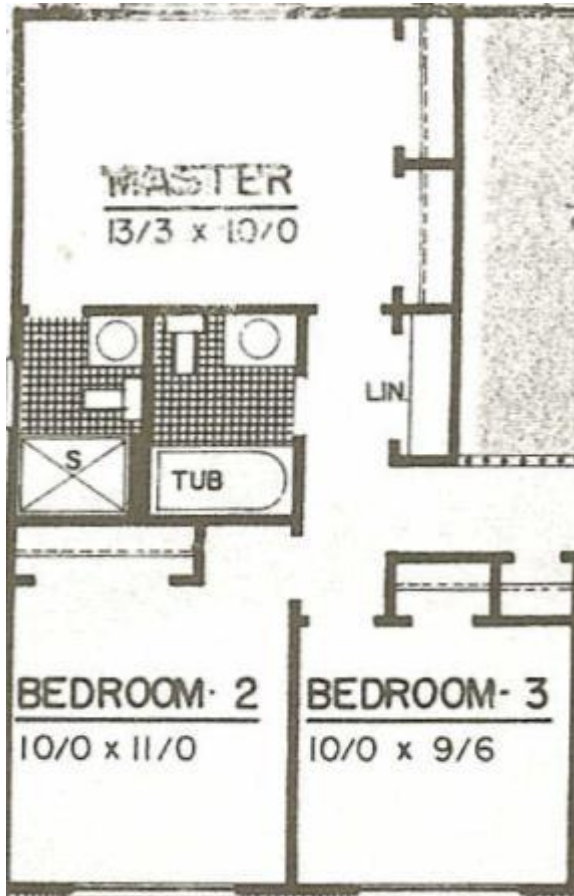


- What rooms are part of the living area?

Sleeping Area



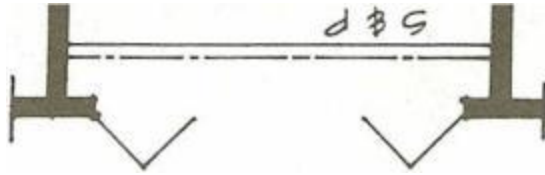
Sleeping Area



Bedrooms

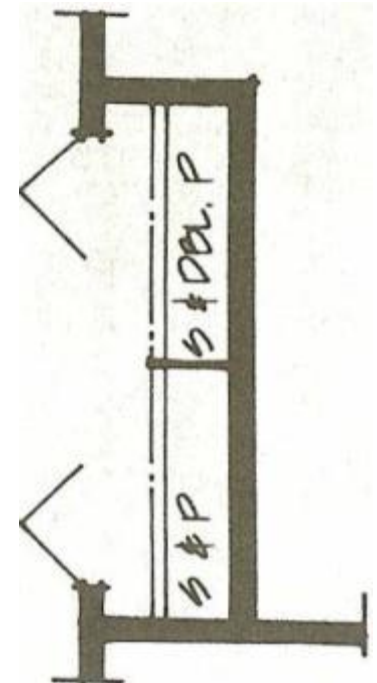
- Away from noise
- Away from busy traffic
- Sizes vary
- General size bedroom 9' x 10'
- Medium size bedroom 12' x 14'
- Master bedroom 13' x 16' +

Sleeping Area



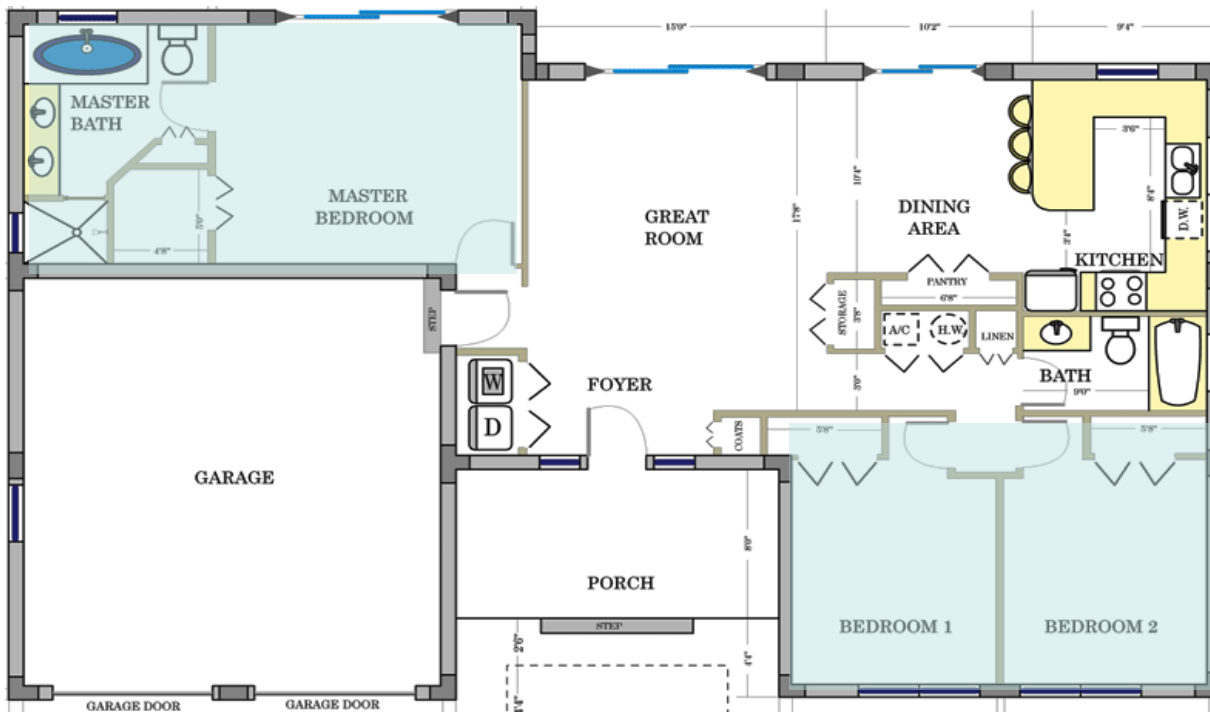
Closets

- Every bedroom
 - Minimum 4' wide x 24" deep
- Noise buffers
- Master bedrooms have walk-in closets
 - Walk-in minimum 6' x 6'
- Linen closet
 - 2' wide x 18" deep

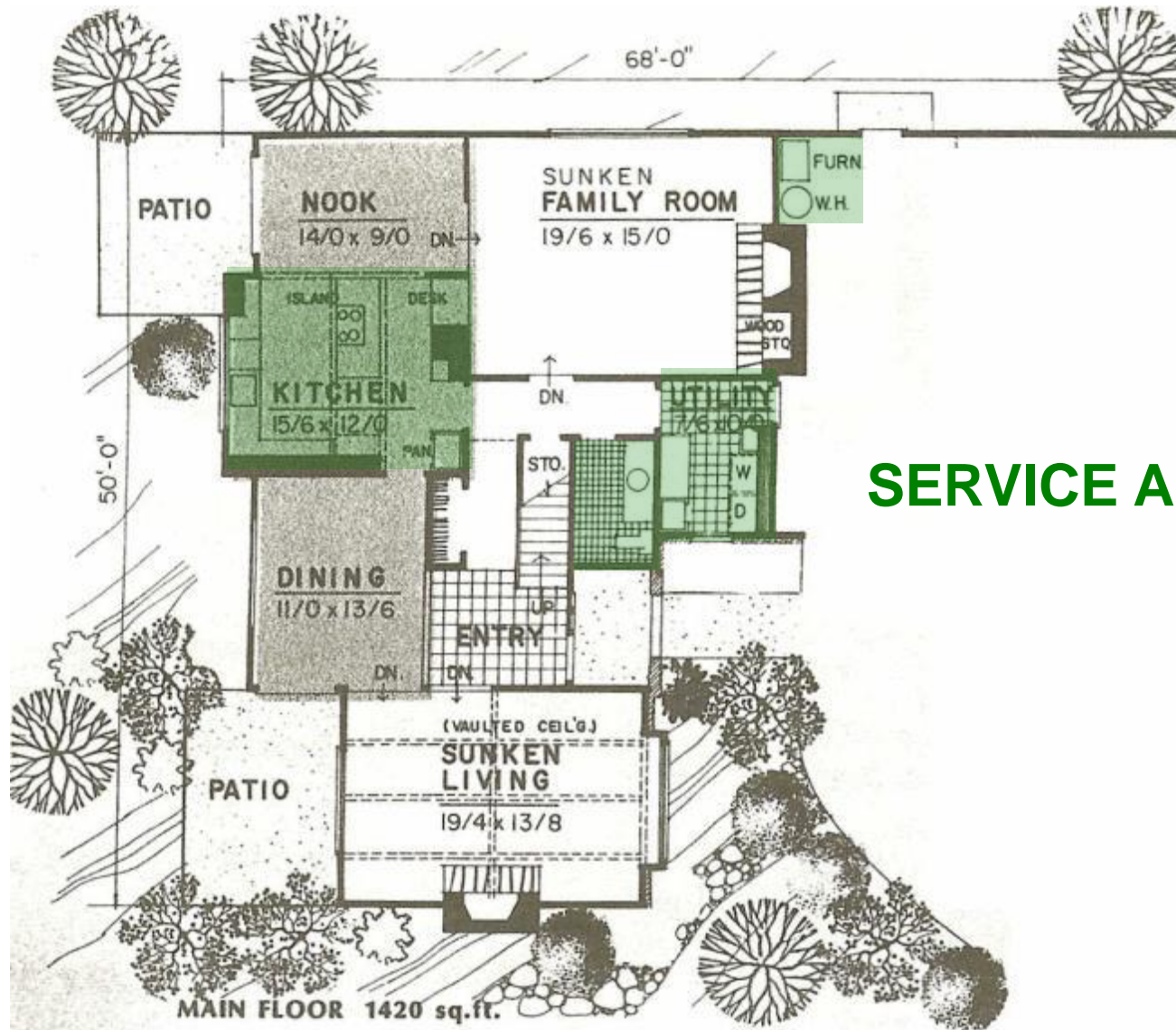


Sleeping Area Characteristics

- Bedrooms should be private; should not walk through a bedroom to get to another room.
- Privacy, noise levels, activity, and room adjacencies are considered when planning bedroom locations.
- Master bedrooms may include a sitting area, master bathroom, or walk-in closet.



- What rooms are part of the sleeping area?

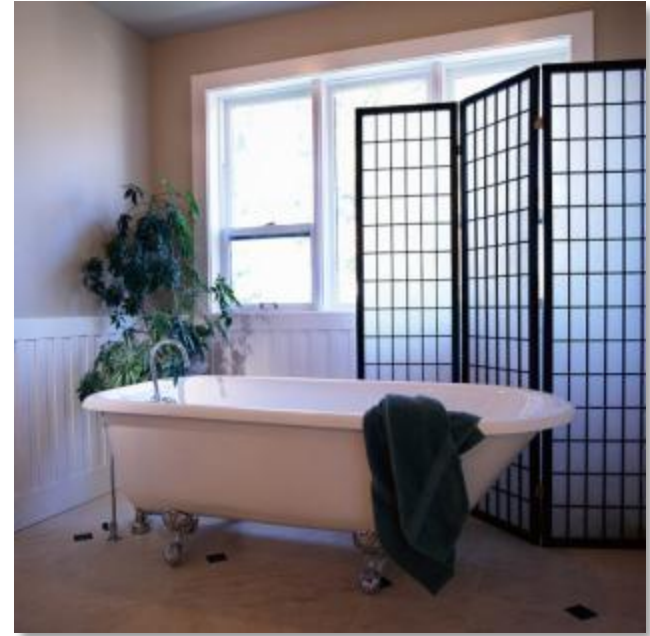


SERVICE AREAS

Service Area

Bathrooms

- Privacy from living areas
- Easy access from other areas
- 2 or more placed back-to-back
- $\frac{1}{2}$ bath = Lavatory and WC
- $\frac{3}{4}$ bath = Lavatory, WC, shower
- Full bath = Lavatory, WC, tub
- Master bath = Lavatory, WC, tub, separate shower
- General size 6' x 9'



Service Area

Laundry Room

- May contain sink, folding table, clothes rack, ironing board
- Laundry supplies storage
- May be near exterior access for hanging clothes outside
- Keep near other rooms that need plumbing
- General size: small – 33" x 66", large – 10' x 10'



Service Area

Garage

- Vehicle storage
- Yard equipment storage
- Sport equipment storage
- Firewall between attached garage and house
- General size: one-car 12' x 24', two-car 22' x 24'



Service Area

Kitchen

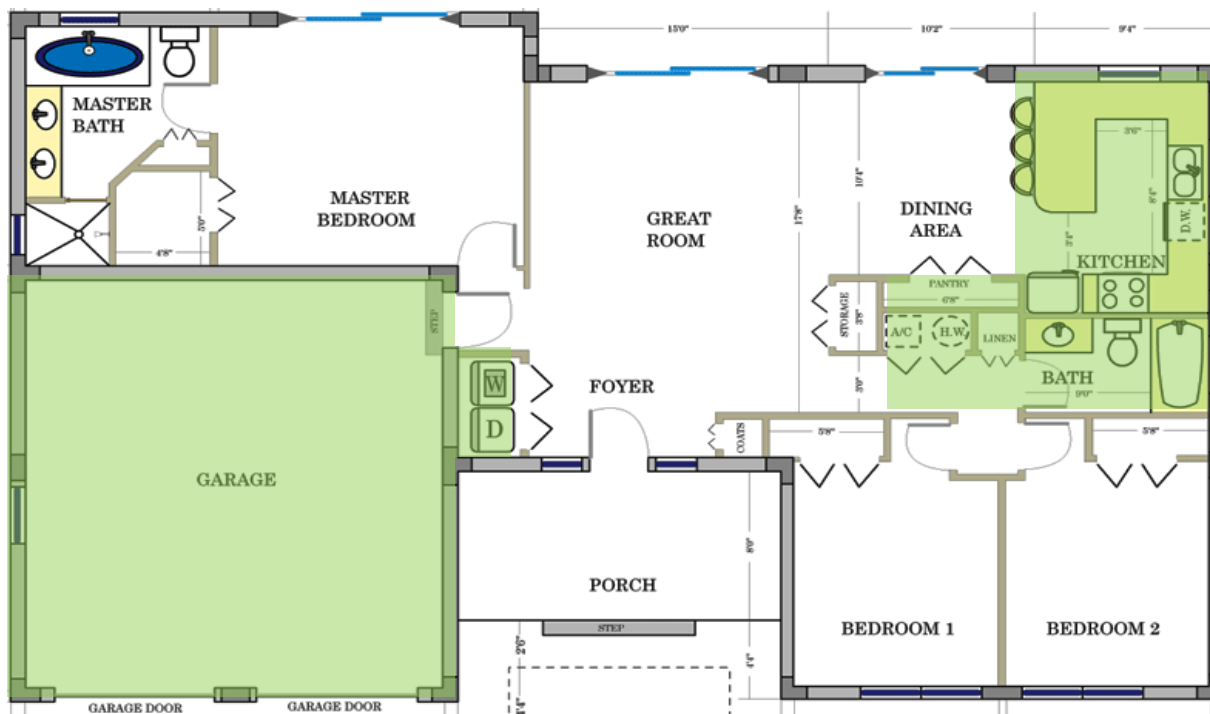
- Used the most
- View of play areas, inside and out
- Close to exit (carrying in groceries)
- Kitchen layout ~ working triangle
 - Major appliances need to be within 4-9 feet of each other
 - Stove, sink, refrigerator, dishwasher

General Size 10' x 10'



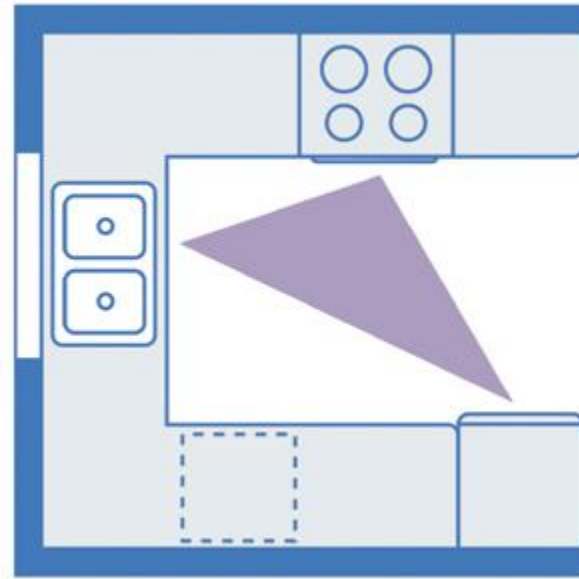
Service Area Characteristics

- Service or working areas are often grouped together to reduce plumbing cost.
- These areas are often noisy.
- When designing a two-story home, a bathroom should be on each level.



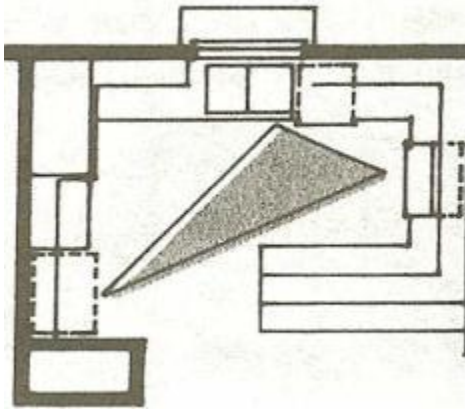
- What rooms are part of the service area?

Working Triangle

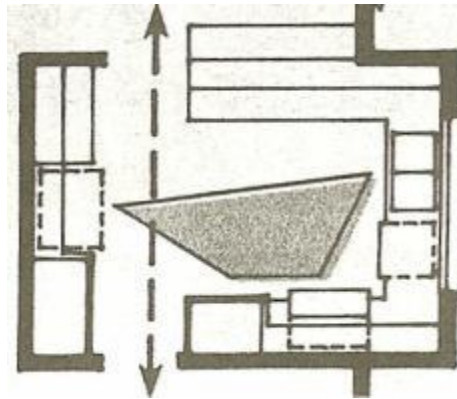


- The working triangle is the distance between the most common three work spaces in a kitchen: Stove, refrigerator, and sink.
- The work triangle has points at front center of sink, front center of stove, and front center of refrigerator.
- The perimeter should be between 12' and 21'.

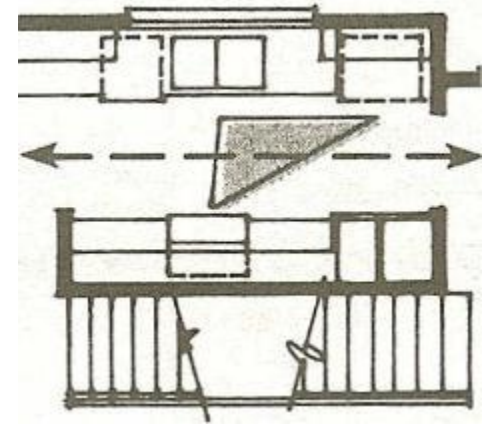
Working Triangle



A.



B.



C.

The traffic flow through the kitchen can often disrupt work.

A. This kitchen has no through traffic.

B. This kitchen has cross traffic through the work area of the sink, refrigerator, and stove.

C. This kitchen has disruptive traffic through the work area.

How can we fix them?

Common Rooms



Room Legend

- BATH
- BEDROOM
- CL
- DINING
- KITCHEN
- LAUNDRY
- LIBRARY
- LIVING
- MASTER BATH
- MASTER BEDROOM
- MUD ROOM
- OFFICE
- PANTRY

In What Area Does Each Room Belong?



- | | |
|------------------------------|----------|
| • Dining Room (not finished) | Service |
| • Bathroom (part finish) | Sleeping |
| • Bedroom | Sleeping |
| • Kitchen | Service |
| • Office Room | Living |
| • Entry Room | Living |
| • Laundry Room | Service |

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

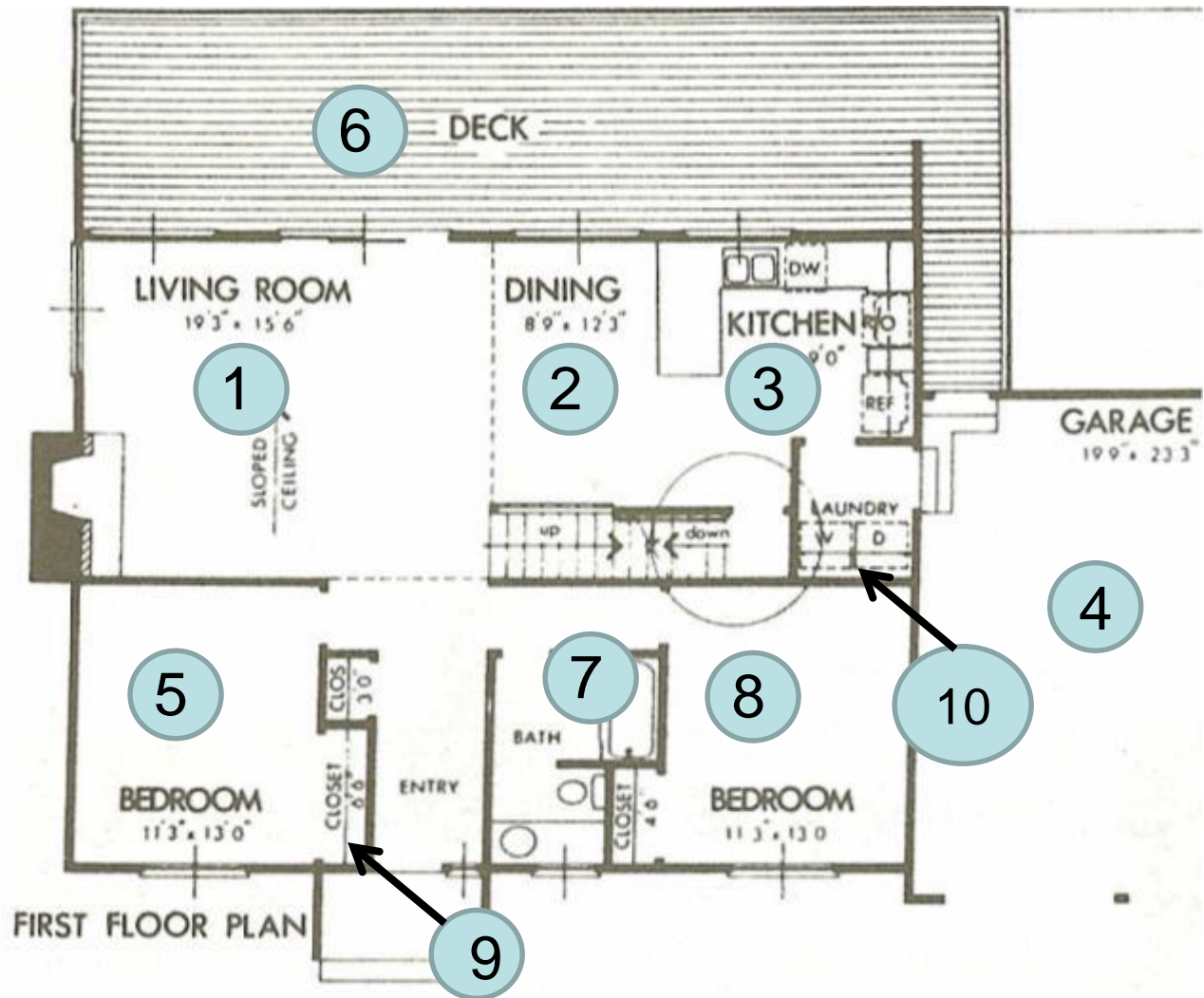
6. _____

7. _____

8. _____

9. _____

10. _____



Identify the type of area for each room.

Answers

1. Living area
2. Living area
3. Service area
4. Service area
5. Sleeping area
6. Living area
7. Service area
8. Sleeping area
9. Sleeping area
10. Service area



SMALL HOUSE PLAN

Resources

Microsoft, Inc. (2011). *Clip art*. Retrieved from
<http://office.microsoft.com/en-us/clipart/default.aspx>