

## **Carpentry & Building Construction**

### **Chapter 27 Cabinets & Countertops**

#### **Section 27.1 Assessment Answers**

1. The basic arrangement of cabinets in any room is shown on the building plans.
2. Universal design aims at making a house usable and safe for the widest variety of people, including elderly adults, children, teens, and persons with a disability.
3. U-shape, L-shape, parallel wall, side wall, and island.
4. The location of plumbing, drains, vents, and a tub or shower determines the cabinet layout. Also, bathrooms are much smaller than kitchens, and the need for storage is much less.
5.  $\frac{1}{2}:12 = 1 \frac{1}{2} : w$ ;  $\frac{1}{24} = \frac{3}{2}w$ ;  $2w = 72$ ;  $w = 36$ . in wide.  
 $\frac{1}{2}:12 = 2 : l$ ;  $\frac{1}{24} = \frac{4}{2}l$ ;  $2l = 96$ ;  $l = 48$  in. long.  
Placed side-by-side, the cabinets will make an island that is 36 in.  $\times$  2 wide and 48 in. long. The island will be 72 in.  $\times$  48 in.

#### **Section 27.2 Assessment Answers**

1. Stock cabinets are built in standard sizes and stored in a warehouse until ordered. Semi-custom cabinets are built only after they are ordered for a specific kitchen. Custom cabinets are usually the most expensive type of manufactured cabinet and usually take the longest to arrive.
2. The drawers of any type of cabinet can be assembled from plywood, particleboard, MDF, or a hardwood such as beech.
3. A frameless cabinet does not have a wood frame around the opening.
4. Use at least #10 roundhead screws that are long enough to go through the  $\frac{3}{4}$ " back rail and the wall covering.
5. Reports will vary.

#### **Section 27.3 Assessment Answers**

1. The standard height in a kitchen is 36".
2. The backs of the sheets are sanded to improve the bond with the substrate.
3. Postformed countertops come ready to install.
4. When existing walls are not perfectly square, obtain a 2'  $\times$  3' piece of cardboard or hardboard. Use it to represent one end of the countertop. Lay it in place on the cabinets, scribe it to the wall, and cut it. Then transfer the pattern to the countertop. Repeat the procedure at the other end of the countertop. After the countertop is cut, it should fit precisely.
5.  $((14 \times 0.25) + 1 + 0.33)r = 4.83r$  rounds to  $5r$