

Lesson 2

Practice:

Pg 20 #1

$$\frac{3}{4}'' + \frac{5}{8}'' = \frac{6}{8}'' + \frac{5}{8}'' = \frac{11}{8}'' =$$

$$1 \frac{3}{8}''$$

Pg 21 #8

$$\frac{5}{16}'' + \frac{5}{8}'' + \frac{7}{8}'' = \frac{5}{16}'' + \frac{10}{16}'' + \frac{14}{16}'' = \frac{29}{16}'' =$$

$$1 \frac{13}{16}''$$

Pg 22 #19

$$\frac{1}{2}'' + \frac{1}{2}'' + \frac{3}{8}'' = \frac{4}{8}'' + \frac{4}{8}'' + \frac{3}{8}'' = \frac{11}{8}'' =$$

$$1 \frac{3}{8}''$$

Pg 22 #25

$$2 \frac{1}{4}'' + \frac{1}{8}'' + 3 \frac{5}{16}'' + \frac{1}{8}'' + 4 \frac{1}{4}'' = \frac{9}{4}'' + \frac{1}{8}'' + \frac{53}{16}'' + \frac{1}{8}'' + \frac{17}{4}'' =$$
$$\frac{36}{16}'' + \frac{2}{16}'' + \frac{53}{16}'' + \frac{2}{16}'' + \frac{68}{16}'' = \frac{161}{16}'' =$$

$$10 \frac{1}{16}''$$

Pg 23 #27

$$7 \frac{1}{2}'' + 7 \frac{1}{2}'' + 7 \frac{1}{2}'' + 7 \frac{1}{2}'' + \frac{13}{16}'' = 4 \left(\frac{15}{2}'' \right) + \frac{13}{16}'' = 4 \left(\frac{120}{16}'' \right) + \frac{13}{16}'' = 30 \frac{13}{16}''$$

#28

$$10'' + 10'' + 10'' + 10'' =$$

$$40''$$

Pg 25 #3

$$\frac{3}{4}'' - \frac{1}{16}'' = \frac{12}{16}'' - \frac{1}{16}'' =$$

$$\frac{11}{16}''$$

Pg 26 #7

$$\frac{1}{2}'' - \left(\frac{1}{8}'' + \frac{1}{8}'' \right) = \frac{1}{2}'' - \frac{2}{8}'' = \frac{2}{4}'' - \frac{1}{4}'' =$$

$$\frac{1}{4}''$$

Pg 26 #8

$$12d \text{ nail} = 3 \frac{1}{4}''$$
$$8d \text{ nail} = 2 \frac{1}{2}''$$

$$3 \frac{1}{4}'' - 2 \frac{1}{2}'' = \frac{13}{4}'' - \frac{5}{2}'' = \frac{13}{4}'' - \frac{10}{4}'' =$$

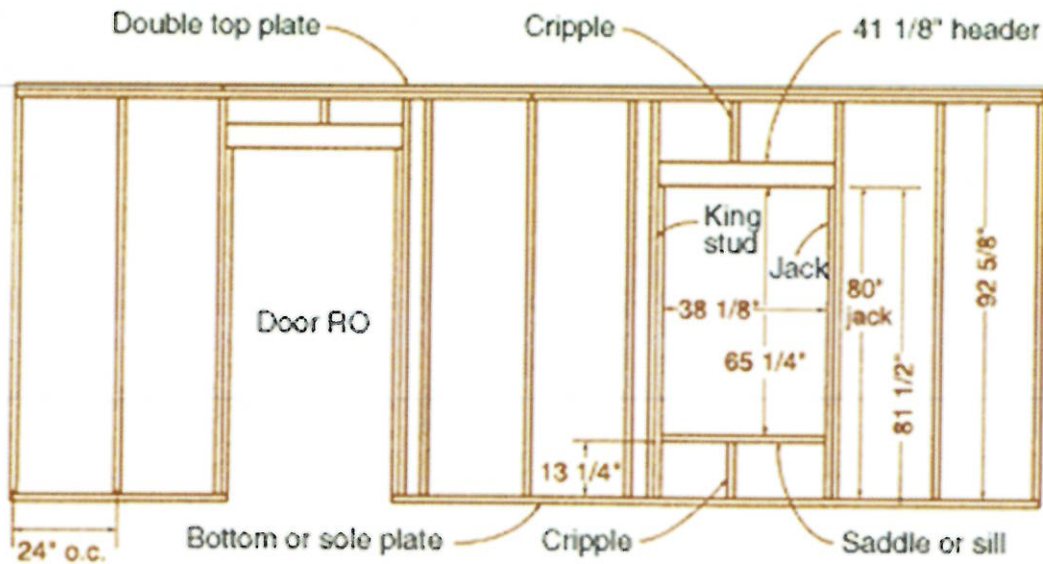
$$\frac{3}{4}''$$

Pg 28 #17

$$6 \frac{7}{8}'' - 6 \frac{1}{4}'' = \frac{55}{8}'' - \frac{25}{4}'' = \frac{55}{8}'' - \frac{50}{8}'' =$$

$$\frac{5}{8}''$$

The drawing below shows a wall frame with a $38 \frac{1}{8}'' \times 65 \frac{1}{4}''$ window opening. How much smaller do you need to make the opening if the window you are installing is $36 \frac{3}{16}'' \times 62 \frac{3}{8}''$, and you are required to leave a $\frac{1}{2}''$ gap between the window and the opening on each side?



$$\text{current opening} = 38 \frac{1}{8}'' \times 65 \frac{1}{4}''$$

$$\text{width needed} = 36 \frac{3}{16}'' + \frac{1}{2}'' + \frac{1}{2}'' = 37 \frac{3}{16}''$$

$$\text{height needed} = 62 \frac{3}{8}'' + \frac{1}{2}'' + \frac{1}{2}'' = 63 \frac{3}{8}''$$

$$38 \frac{1}{8}'' - 37 \frac{3}{16}'' = \frac{15}{16}'' \text{ (amount to reduce width)}$$

$$65 \frac{1}{4}'' - 63 \frac{3}{8}'' = 1 \frac{7}{8}'' \text{ (amount to reduce height)}$$

The following questions refer to the kitchen elevation shown below.

What is the width of the right upper cabinet?

$$9'-6" - 6'-9\frac{13}{16}" =$$

$$2'-8\frac{3}{16}"$$

If the window is centered between the upper cabinets as shown, how much wall space is there between the window and each wall cabinet?

cab to cab $6'-9\frac{13}{16}" - 2'-8\frac{3}{16}" = 4'-1\frac{5}{8}"$

window $6'-3\frac{3}{4}" - 3'-2\frac{3}{16}" = 3'-1\frac{9}{16}"$

cab-cab-window $4'-1\frac{5}{8}" - 3'-1\frac{9}{16}" = 1'-0\frac{1}{16}"$

divide by 2 $1'-0\frac{1}{16}" \div 2 =$

$$6\frac{1}{32}"$$

What is the distance from the top of the wall cabinet to the ceiling?

$$9'-0\frac{1}{2}" - 7'-8\frac{1}{16}" = 1'-1\frac{7}{16}"$$

$$1'-4\frac{7}{16}"$$

What is the distance between the upper cabinets and the top of the lower cabinets?

$$4'-7\frac{7}{16}" - 3'-0\frac{7}{8}" =$$

$$1'-6\frac{9}{16}"$$

