

Chap 1 Sec 4

Pg: 8

$$\begin{array}{r} 13) \quad \$25 + 12x = 574 \\ \quad -25 \qquad \qquad -25 \\ \hline \qquad \qquad 12x = 549 \\ \qquad \qquad \frac{12}{12} \qquad \frac{549}{12} \\ \qquad \qquad x = \$45.75 \end{array}$$

$$14) \quad 120 = 20 + 33 + 32 + x$$

$$120 = 85 + x$$

$$\begin{array}{r} -85 \quad -85 \\ \hline \end{array}$$

$$35 = x$$

~~210 = 85 + 4x~~

$$210 = 85 + 4x$$

$$\begin{array}{r} -85 \quad -85 \\ \hline \end{array}$$

$$\frac{125}{4} = \frac{4x}{4}$$

$$31.25 = x$$

Day	min
Th	20
F	33
Sat	32
Sun	X

Mon ✓
Tues ✓
Wed ✓

15) 3 bagels $3x$

1 smoothie $= \$8.00$

Total Bill $= \$16.98$

Sales Tax @ 7%

Tip @ $\$2.00$

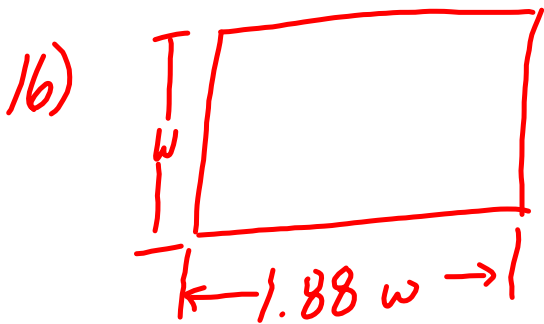
$$3x + 8.00 = 16.98 - 2.00$$

$$3x + 8.00 + (.07)(14.98) + 2.00 = 16.98$$

$$3x + 11.05 = 16.98$$

$$3x = 5.93$$

$$x = 1.98$$



$$w = 50$$

$$1.88w = 94$$

$$100 + 188 = 288$$

$$P = 288 \text{ ft}$$

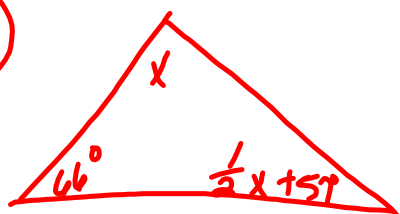
$$2w + 2(1.88w) = 288$$

$$2w + 3.76w = 288$$

$$5.76w = 288$$

$$w = 50$$

17)



$$180 = 66^\circ + x^\circ + \frac{1}{2}x^\circ + 57^\circ$$

$$57 = \frac{3}{2}x^\circ$$

$$\frac{114}{3} = \frac{3}{3}x^\circ$$

$$38^\circ = x$$

$$x^\circ = 38^\circ$$

$$\frac{1}{2}x^\circ + 57^\circ =$$

$$\frac{1}{2}(38) + 57 = 76^\circ$$