

HW Review -  
p. 475-479

#29

$$l = 1 + 3w$$

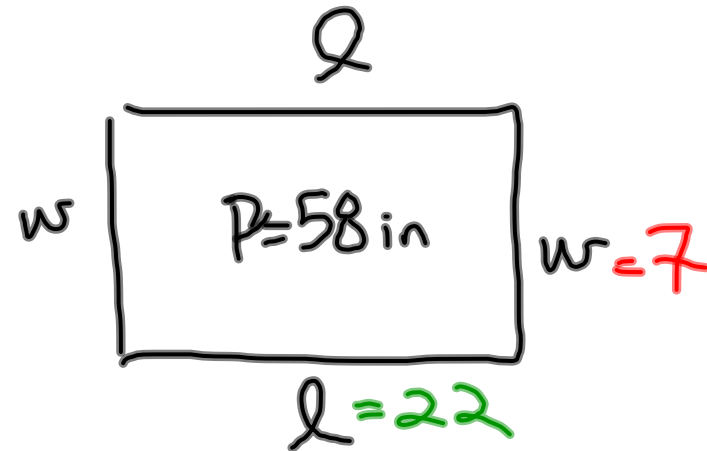
$$l + w + l + w = 58$$

$$2l + 2w = 58$$

$$l + w = 29$$

$$l + 7 = 29$$

$$l = 22$$



$$1 + 3w + w = 29$$

$$1 + 4w = 29$$

$$4w = 28$$

$$w = 7$$

(30)

\$75 = budget

50 bottles of water

# =  $x$  granola = .50 ea

# =  $y$  water = .75 ea

$$.5x + .75y = 75$$

$x + y = \text{total \# of bottles}$

(28)

$$\underline{x} = \text{fee} = \$20.00$$

$$\underline{y} = \$ \text{ per mile} = \$1.30$$

Carrie: 150mi, \$215

$x + y(\# \text{ of miles}) = \text{total}$

Dave: 120mi, \$176

$$x + 150y = 215$$

$$x = \boxed{-150y + 215}$$

$$x + 120y = 176$$

$$-150y + 215 + 120y = 176$$

$$-30y = -39$$

$$y = \boxed{\$1.3}$$

$$\begin{aligned} x &= -150(1.3) + 215 \\ &= -195 + 215 \\ &= 20 \end{aligned}$$