

4.3 Model With Formulas pg 180-81

Solutions

1 b) Solve for  $l$ .

$$P = 2l + 2w$$

Bring  $2w$  to the other side

$$\frac{P-2w}{2} = \frac{2l}{2}$$

Divide by 2 to isolate  $l$ .

$$\frac{P-2w}{2} = l$$

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1) f) Solve for  $h$

$$2 \times A = \frac{bh}{2} \quad \text{Multiply by 2}$$

$$\frac{2A}{b} = \frac{bh}{b} \quad \text{Divide by } b \text{ to isolate } h.$$

$$\frac{2A}{b} = h$$

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$$I = Prt$$

$I$  = interest  
 $P$  = principle (Amount Invested)  
 $r$  = rate (%)  
 $t$  = time

$$I = (4000)(0.0085)(4)$$

Divide by 100

$$I = (4000)(0.0085)(4)$$

$$I = \$136$$

You would earn \$136 after 4 years.

Apr 14-8:26 AM

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hours

$$4G + 20 = 200$$

$$4G = 200 - 20$$

$$\frac{4G}{4} = \frac{180}{4}$$

$G = 45 \text{ km/h}$   
 $C = G + 10$   
 $C = 45 + 10$   
 $C = 55 \text{ km/h}$

Graham drives at 45 km/h, while Colin drives at 55 km/h.

Apr 14-8:30 AM