

$$3x + 4 - x + 8 = 3(2x - 1) + 8$$

$$\underline{3x + 4} - \underline{x + 8} = \underline{6x - 3} + 8$$

$$\cancel{2x} + 12 = 6x + 5$$

$-2x$ $-2x$

$$12 = 4x + \cancel{8}$$

-5 -5

$$\frac{7}{4} = \frac{4x}{4} \quad \boxed{x = \frac{7}{4}}$$

① D.P.

② C.L.T.

③ Bring small x to big one by changing sign.

④ undo + or -

⑤ undo \times or \div

10 pg 2.

$$\frac{3a}{4} + \cancel{8} = 11$$

$-\cancel{8}$ -5

$$4\left(\frac{3a}{4}\right) = 6(4)$$

$$\cancel{\frac{3a}{3}} = \frac{24}{3}$$

$$\boxed{a = 8}$$

Pg 3 #2

The sum of 3 consecutive ^{numbers} is 4770.

#1: x
 #2: $x+1$
 #3: $x+2$

$$x + (x+1) + (x+2) = 4770$$

$$x + (x+1) + (x+2) = 4770$$

$$3x + 3 = 4770$$

$$\begin{array}{r} -3 \quad -3 \end{array}$$

$$\frac{3x}{3} = \frac{4767}{3}$$

$$\boxed{x = 1589}$$

#1 1589
 #2 1590 $\downarrow +1$
 #3 1591 $\downarrow +1$

Pg 10 #2

Jane works 3 hours less than twice Bobby

B(x)	8	10	12	15	18	21	24	Rule
J(y)	13	17	21	27	33	39	45	$2x-3$

$$J = 2b - 3$$

$$y = 2x - 3$$

$$27 + 3 = \frac{30}{2} = 15$$

Pg 16 #F

$$J: x$$

$$V: 2x$$

$$m: 2x+15$$

$$x + (2x) + (2x+15) = 225$$

$$\begin{array}{r} 5x+15=225 \\ -15 \quad -15 \\ \hline \end{array}$$

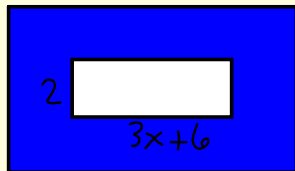
$$\begin{array}{r} 5x=210 \\ \frac{5}{5} \quad \frac{5}{5} \\ \hline \end{array}$$

$$x = 42$$

$$J = 42$$

$$V = 84$$

$$m = 99$$



$$6x+8$$

$$12$$

$$\begin{aligned} A_B &= \overbrace{l \cdot w} \\ &= 12(6x+8) \\ &= 72x+96 \end{aligned}$$

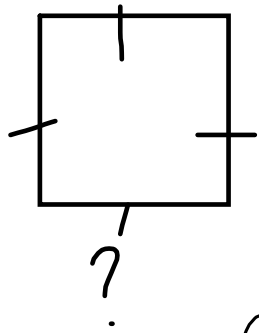
$$\begin{aligned} A_S &= \overbrace{l \cdot w} \\ &= 2(3x+6) \\ &= 6x+12 \end{aligned}$$

$$A_B - A_S = (72x+96) - (6x+12)$$

$$\begin{array}{r} 72x+96-6x-12 \\ \hline \end{array}$$

$$\boxed{66x+84}$$

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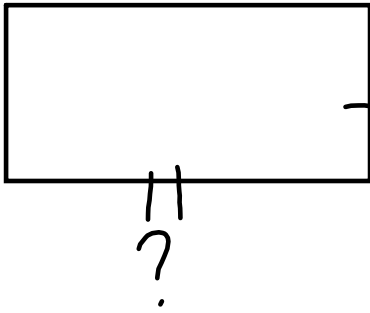


$$P = 28x + 36$$

$$P = 4s$$

$$\frac{28x + 36}{4} = \frac{4s}{4}$$

$$s = 7x + 9$$



$$A = 63x - 49$$

$$A = l \cdot w$$

$$\frac{63x - 49}{7} = \frac{7w}{7}$$

$$9x - 7 = w$$

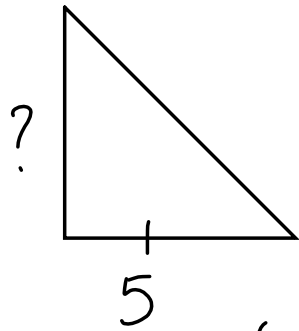
Area

Backwards

① write formula

② plug in

③ solve for "x"



$$A = 40x - 15$$

$$A = \frac{bh}{2}$$

$$2(40x - 15) = \left(\frac{5h}{2}\right) 2$$

$$\frac{80x - 30}{5} = 5h$$

$$16x - 6 = h$$