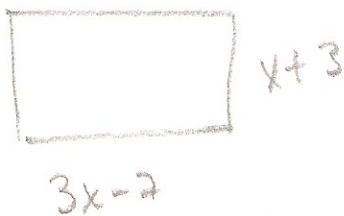


90% work 20% Answer

1)

2



$P = 48$

$$48 = 2(3x-7) + 2(x+3)$$

$$= 6x - 14 + 2x + 6$$

$$48 = 8x - 20$$

$$+20 \quad +20$$

$$68 = 8x$$

$$8.5 = x$$

$$L = 3(8.5) - 7$$

$$L = 18.5$$

$$W = 8.5 + 3$$

$$W = 11.5$$

2)

4

$$3x - 54 > 6 - 3x$$

$$-3x \quad -3x$$

$$\frac{-54}{-5} > \frac{6-3x}{-5}$$

$$y < \frac{3}{5}x - \frac{6}{5}$$

3)

5

$$y = \frac{3}{7}x + 2$$

$$8 = \frac{3}{7}x + 2$$

$$-2 \quad -2$$

$$\left(\frac{7}{3}\right)6 = \frac{3}{7}x \left(\frac{7}{3}\right)$$

$$\frac{42}{3} = x$$

$$14 = x$$

4)

8

$$5x + 3y \geq 79 \quad x = 5$$

$$5(5) + 3y \geq 79$$

$$25 + 3y \geq 79$$

$$-25 \quad -25$$

$$3y \geq 54$$

$$y \geq 18$$

5)

9

$$10 < 50 - 5.49x < 20$$

$$-50 \quad -50 \quad -50$$

$$-40 < -5.49x < -30$$

$$-5.49 \quad -5.49 \quad -5.49$$

$$7.29 > x > 5.47$$

$$6 \leq x \leq 7 \text{ boxes}$$

6)

14

$$(20)(18) = 100 + 16x$$

$$\begin{array}{r} 360 = 100 + 16x \\ -100 \quad -100 \end{array}$$

$$\frac{260}{16} = \frac{16x}{16}$$

$$\boxed{16.25 = x}$$

7)

13

$$4[.5(8x-4)] = [.25(22-4x)]4$$

$$2(8x-4) = 22-4x$$

$$\begin{array}{r} 16x - 8 = 22 - 4x \\ 4x \qquad +4x \end{array}$$

$$\begin{array}{r} 20x - 8 = 22 + 8 \\ +8 \end{array}$$

$$20x = 30$$

$$\boxed{x = 1.5}$$

8)

12

$$3(4-x) < -2x + 6$$

$$\begin{array}{r} 12 - 3x < -2x + 6 \\ -6 \quad +3x \quad +3x \quad -6 \\ \hline 6 < x \end{array}$$

$$\boxed{x > 6}$$