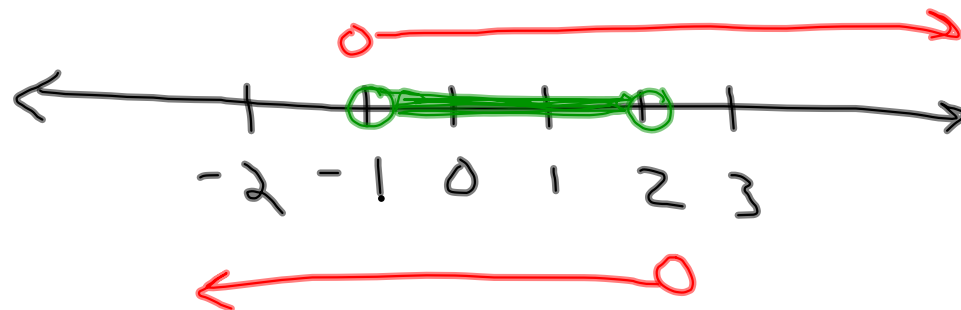


Homework Review:

#24. p. 385

$$\begin{array}{ccc} -4 < x-3 < -1 \\ +3 & +3 & +3 \end{array}$$

$$-1 < x < 2$$



#27

$$\begin{array}{rcl} a & > & 3x + 8 \\ -8 & & -8 \end{array}$$

$$\frac{a-8}{3} > \frac{3x}{3}$$

$$\boxed{\begin{array}{l} \frac{a-8}{3} \\ 5 \end{array}} > x$$

$$\begin{array}{rcl} a & > & -4x - 1 \\ +1 & & +1 \end{array}$$

$$\frac{a+1}{-4} > \frac{-4x}{-4}$$

$$\boxed{\begin{array}{l} -(\frac{a+1}{4}) \\ -6 \end{array}} < x$$

$$3 \left(\frac{a-8}{3} \right) = 5 \cdot 3$$

$$\begin{array}{rcl} a-8 & = & 15 \\ +8 & & +8 \end{array}$$

$$a = 23$$

$$(-1) - \left(\frac{a+1}{4} \right) = -6(-1)$$

$$4 \cdot \frac{a+1}{4} = 6 \cdot 4$$

$$\begin{array}{rcl} a+1 & = & 24 - 1 \\ -1 & & \end{array}$$

$$a = 23$$

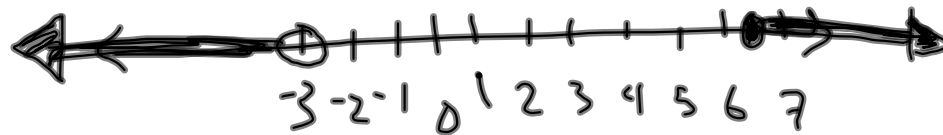
#26

$$\begin{array}{r} -2x + 8 \leq 5 \\ -8 \quad -8 \end{array} \quad \text{or} \quad \begin{array}{r} 6 < -2x \\ -2 \quad -2 \end{array}$$

$$\begin{array}{r} -2x \leq -13 \\ -2 \quad -2 \end{array} \quad \text{or} \quad -3 > x$$

$$x \geq \frac{13}{2} \quad \text{or} \quad x < -3$$

6.5



#20

$$\begin{array}{c} -2h + 7 > h + 5 \text{ or } 4 \cdot \frac{1}{4}(h+8) \geq 9.4 \\ +7 \quad +7 \end{array}$$

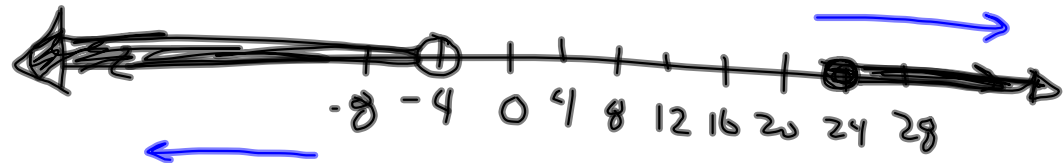
$$\begin{array}{c} -2h > h + 12 \\ -h \quad -h \end{array}$$

$$\begin{array}{c} -3h > 12 \\ \hline -3 \quad -3 \end{array}$$

$$h < -4$$

$$\begin{array}{c} h + 8 \geq 36 \\ -8 \quad -8 \end{array}$$

$$h \geq 24$$



#44

$$W = \boxed{-22 + 1.3a}$$

$$W = -9^{\circ}\text{F to } -2.5^{\circ}\text{F}$$

$$-9 \leq W \leq -2.5$$

$$\begin{array}{ccc} -9 & \leq & -22 + 1.3a & \leq & -2.5 \\ +22 & & +22 & & +22 \end{array}$$

$$\frac{13}{1.3} \leq \frac{1.3a}{1.3} \leq \frac{19.5}{1.3}$$

$$10 \leq a \leq 15$$

Homework

p. 387

1-8

p. 386

40, 41, 42, 43

Pollen Count Weather forecasts will often give reports on the pollen count. For people suffering from allergies, the pollen count indicates the severity of their symptoms. If a pollen count is high, the severity of the symptoms are increased. The table shows ranges for high, medium, and low pollen counts. Write an inequality to find the range at which the pollen count is not medium.

Pollen Count	High	Medium	Low
Range	Greater than 8	Greater than 4 and less than or equal to 8	Less than or equal to 4

$$8 < x$$

$$x > 8 \quad \text{OR} \quad x \leq 4$$

- 22. Basketball** You live 6.5 miles from the basketball courts and 2.25 miles from your friend's house. Write an inequality that represents the distance between the basketball courts and your friend's house. Write an inequality that represents the distance you travel if you go to your friend's house and then to the basketball courts.

