



$$12.6 + 4m = 9.6 + 8m$$

$$\quad \quad -4m \qquad \quad -4m$$

$$12.6 = 9.6 + 4m$$

$$\quad \quad -9.6 \quad -9.6$$

$$\frac{3}{4} = \frac{4m}{4}$$

$$\boxed{m = \frac{3}{4}}$$

$$4n + 2 = 6\left(\frac{1}{3}n - \frac{2}{3}\right)$$

$$4n + 2 = 2n - 4$$

$$\quad \quad -2n \quad \quad -2n$$

$$2n + 2 = -4$$

$$\quad \quad -2 \quad \quad -2$$

$$\frac{2n}{2} = \frac{-6}{2}$$

$$\boxed{n = -3}$$

$$\frac{8}{3}c - 2 = \frac{2}{3}c - 12$$

$$\quad \quad +2 \qquad \quad \quad +2$$

$$\frac{8}{3}c = \frac{2}{3}c - 10$$

$$\frac{8}{3}c - \frac{2}{3}c$$

$$\left(\frac{8}{3} - \frac{2}{3}\right)c = -10$$

$$\frac{6}{3}c = -10$$

$$\frac{6}{3}c = -10$$

$$\frac{2c}{2} = \frac{-10}{2}$$

$$\boxed{c = -5}$$

$$0.5(7d + 4) = 7 - 1.5d$$

$$3.5d + 2 = 7 - 1.5d$$

$$\quad \quad -2 \quad \quad -2$$

$$3.5d = 5 - 1.5d$$

$$+1.5d \quad \quad +1.5d$$

$$5d = 5$$

$$\frac{5d}{5} = \frac{5}{5}$$

$$\boxed{d = 1}$$

$$13(y+3) = 13y + 39$$

$$13y + 39 = 13y + 39$$

$$\cancel{13y} - 39$$

$$\boxed{0 = 0}$$

$$-P \cdot (5z + z) = dz + 84$$

$$-7x + 2 = 2x + 2 - 9x$$

$$\begin{array}{rcl} -\cancel{7x} + 2 & = & -\cancel{7x} + 2 \\ +\cancel{7x} - 2 & & +\cancel{7x} - 2 \end{array}$$

$$\boxed{0 = 0} \rightarrow \infty \text{ solutions}$$

$$-7x + 3 = 2x + 2 - 9x$$

$$\begin{array}{rcl} -\cancel{7x} + 3 & = & -7x + 2 \\ +\cancel{7x} & & +\cancel{7x} \end{array}$$

$$3 = 2$$

No solutions

$$-7x + 3 = 2x + 2$$

$$+7x \quad +7x$$

$$3 = 9x + 2$$

$$-2 \quad -2$$

$$\frac{1}{9} = \frac{9x}{9}$$

$$\boxed{x = \frac{1}{9}, \text{ 1 solution}}$$

$$-4(x+5) = -4x - 20$$

$$-4x - 20 = -4x - 20$$

$$\cancel{-4x} + 20$$

$$-20 = -20$$

$\infty$  solutions

$$8(3x + 10) = 28x - 14 - 4x$$

$$24x + 80 = 24x - 14$$

$$\cancel{24x} \quad \cancel{-24x}$$

$$80 \neq -14$$

No solution

$$-9(x+6) = -9x + 108$$

$$-9x - 54 = -9x + 108$$

$$+9x \quad +9x$$

$-54 \neq 108$   
 No solutions

$$20z - 5 - 12z = 10z + 8$$

$$\cancel{8z} - 5 = 10z + 8$$

$$-8z \quad -8z$$

$$-5 = 2z + 8$$

$$-8 \quad -8$$

$$\frac{-13}{2} = \frac{2z}{2}$$

$z = -\frac{13}{2}$ , one solution

$$-9(z+8) = -9z - 72$$

$$\cancel{-9z} - 72 = \cancel{-9z} - 72$$

$$+9z \quad +9z$$

$-72 = -72$ , 00 solutions

$$ax + 3x = bx + 5$$

$$-bx \quad -bx$$

$$ax - bx + 3x = 5$$

$$x(a \cancel{- b + 3}) = \frac{5}{a-b+3}$$

$x = \frac{5}{a-b+3}$

$$a(5-x) = bx - 8$$

$$5a - ax = bx - 8$$

$$-bx \quad -bx$$

$$5a - ax - bx = -8$$

$$-5a$$

$$(-1) \cdot -ax - bx = -8 - 5a$$

$$ax + bx = 8 + 5a$$

$$x(a+b) = 5a + 8$$

$x = \frac{5a+b}{a+b}$

$$16z + 29z = pz - v$$

$$\begin{matrix} -pz & -pz \end{matrix}$$

$$45z - pz = -v$$

$$z(45 - p) = -v$$

$$z = -\frac{v}{45-p}$$

$$ax + 3x = bx + 5$$

$$\begin{matrix} -bx \end{matrix}$$

$$ax + 3x - bx = 5$$

$$x(a + 3 - b) = 5$$

$$\frac{a+3-b}{a+3-b}$$

$$x = \frac{5}{a-b+3}$$

$$-p \cdot (51 + z) = dz + 84$$

$$-51p - pz = dz + 84$$

$$\begin{matrix} -dz & -dz \end{matrix}$$

$$-51p - dz - pz = 84$$

$$+51p$$

$$-dz - pz = 51p + 84$$

$$\frac{z(-d - p)}{-d - R} = \frac{51p + 84}{-d - p}$$

$$z = \frac{51p + 84}{-d - p}$$

$$a \cdot (5 - x) = bx - 8$$

$$5a - ax = bx - 8$$

$$\begin{matrix} -bx \end{matrix}$$

$$5a - ax - bx = -8$$

$$\begin{matrix} -5a \end{matrix}$$

$$-ax - bx = -8 - 5a$$

$$\frac{x(-a-b)}{-a-b} = -8 - 5a$$

$$x = \frac{-8 - 5a}{-a - b}$$

$$x = \frac{8 + 5a}{a + b}$$

$$\begin{array}{rcl} 19x + rx = -37x + w \\ +37x \qquad \qquad +37x \\ \hline 56x + rx = w \end{array}$$

$$x(56+r) = w$$

$$\cancel{\frac{x(56+r)}{56+r}}$$

$$x = \frac{w}{56+r}$$

$$\begin{array}{rcl} a \cdot (t+z) = 45z + 67 \\ at + az = 45z + 67 \\ \cancel{-45z} \end{array}$$

$$\begin{array}{rcl} at + az - 45z = 67 \\ \cancel{-at} \end{array}$$

$$\begin{array}{rcl} az - 45z = 67 - at \\ z(a-45) = 67 - at \\ \cancel{\frac{z(a-45)}{a-45}} \end{array}$$

$$az + 17 = -4z - b$$

$$+4z$$

$$az + 17 + 4z = -b$$

$$-17 \qquad \qquad -17$$

$$z = \frac{67 - at}{a - 45}$$

$$az + 4z = -b - 17$$

$$z(a+4) = -b - 17$$

$$\cancel{\frac{z(a+4)}{a+4}} \qquad \cancel{\frac{-b-17}{a+4}}$$

$$z = \frac{-b - 17}{a + 4}$$

$$d \cdot (3+x) = kx + q$$

$$3d + dx = kx + q$$

$$-kx - kx$$

$$\begin{array}{rcl} 3d + dx - kx & = & q \\ -3d & & -3d \end{array}$$

$$\begin{array}{rcl} dx - kx & = & q - 3d \\ x(d - k) & = & q - 3d \end{array}$$

$$x(d-k) = q - d$$

$$\cancel{\frac{x(d-k)}{d-k}}$$

$$x = \frac{q - d}{d - k}$$

$$n \cdot (17 + x) = 34x - r$$

$$17n + nx = 34x - r$$

$$-34x$$

$$17n + nx - 34x = -r$$

$$-17n \qquad \qquad \qquad -17n$$

$$nx - 34x = -r - 17n$$

$$x(n - 34) = -r - 17n$$

$$x = \frac{-r - 17n}{n - 34}$$

$$-25x + 1 + 35z = 10z + 1$$

$$10z + 1 = 10z + 1$$

$$-10z \qquad \qquad -10z$$

$$1 = 1$$

00 solutions

$$3z + 9 + 14z = 4z + 5$$

$$17z + 9 = 4z + 5$$

$$-4z \qquad \qquad -4z$$

$$13z + 9 = 5$$

$$-9 \qquad \qquad -9$$

$$\begin{array}{r} 13z \\ \hline 13 \end{array} = -4$$

$$\boxed{z = -\frac{4}{13}}$$

$$-4z + 1 = bz + c$$

$$-bz \qquad \qquad -bz$$

$$-4z + 1 - bz = c$$

$$-1$$

$$-4z - bz = c - 1$$

$$z(-4 - b) = c - 1$$

$$\boxed{z = \frac{c - 1}{-4 - b}}$$

$$q \cdot (a + y) = 67y + 93$$

$$aq + qy = 67y + 93$$

$$\cancel{qy} \quad \cancel{-qy}$$

$$aq = 67y + 93 - qy$$

$$\cancel{-93} \quad \cancel{-93}$$

$$aq - 93 = 67y - qy$$

$$aq - 93 = y(67 - q)$$


---


$$67 - q$$

$$\boxed{\frac{aq - 93}{67 - q} = y}$$

$$5x + 7 > 3(x + 1)$$

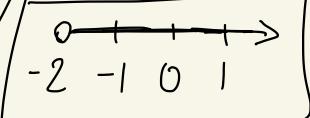
$$5x + 7 > 3x + 3$$

$$\cancel{-3x} \quad \cancel{-3x}$$

$$2x + 7 > 3$$

$$\cancel{-7} \quad \cancel{-7}$$

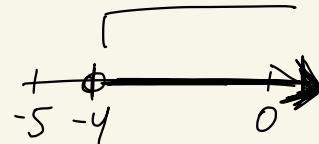
$$\frac{2x}{2} > \frac{-4}{2}$$

$$\boxed{x > -2}$$


$$\begin{array}{rcl} -3p - 7 < p + 9 & > & = \\ -p & -p & \geq \\ \hline -4p - 7 < 9 & +7 & +7 \end{array}$$

$$\begin{array}{rcl} -4p < 16 & & \\ \hline -4 & -4 & \\ p > -4 & & \end{array}$$

$$\boxed{p > -4}$$



$$-3(-3) - 7 < (-3) + 9$$

$$\begin{array}{rcl} 9 - 7 < 6 & & \\ \hline 2 < 6 & & \checkmark \end{array}$$

$$\begin{array}{rcl} 35r - 21 < -35r + 19 & & \\ +35r & +35r & \end{array}$$

$$70r - 21 < 19$$

$$\frac{70r}{70} < \frac{40}{70}$$

$$\boxed{r < \frac{4}{7}}$$

$$55c + 13 \leq 75c + 39$$

$$-55c \quad -55c$$

$$13 \leq 20c + 39$$

$$-39 \quad -39$$

$$\frac{-26}{20} \leq \frac{20c}{20}$$

$$-\frac{13}{10} \leq c$$

$$c \geq -\frac{13}{10}$$

$$-67b + 6 \leq 9b + 43$$

$$-9b \quad -9b$$

$$-76b + 6 \leq 43$$

$$-6 \quad -6$$

$$-\cancel{6}6b \leq \frac{37}{-76}$$

$$b \geq -\frac{37}{76}$$

$$50q + 43 > -11q + 70$$

$$+11q \quad +11q$$

$$61q + 43 > 70$$

$$-43 \quad -43$$

$$\frac{61q}{61} > \frac{27}{61}$$

$$q > \frac{27}{61}$$

$$105 + 256c \geq 1000$$

$$-105 \quad -105$$

$$\frac{256c}{256} \geq \frac{895}{256}$$

$$c = 3.49$$

$$c \approx 4$$

$$4 \cdot 10 = \$40$$

$$2.5P + 5B \leq 21$$

$$-2.50 \quad -2.50$$


---


$$\frac{5}{5}B \leq \frac{18.5}{5}$$

$$P + 2.75S \leq 21$$

$$-5 \quad -5$$

$$B \leq 3.7$$

$$S \leq 5.82$$

$$B \approx 3$$

$$S \approx 5$$


---

$$3 \cdot 3 = \boxed{9}$$

$$-6x + 14 < -28 \quad \text{AND} \quad 3x + 28 \leq 25$$

$$-14 \quad -28$$

$$18 + 0.08B \geq 75$$

$$-18 \quad -18$$

$$\frac{-6x}{-6} < \frac{-42}{-6}$$

$$\frac{3x}{3} \leq \frac{-3}{3}$$

$$x > 7$$

$$x \leq -1$$

$$\frac{0.08B}{0.08} \geq \frac{57}{0.08}$$

$$B \geq 712.5$$

$$\boxed{B \approx 713}$$

$$\boxed{x > 7}$$


---

$$2x + 3 \geq 7$$

$$-3 \quad -3$$

$$2x + 9 > 11$$

$$-9 \quad -9$$

$$\frac{2x}{2} \geq \frac{4}{2}$$

$$\frac{2x}{2} > \frac{2}{2}$$

$$x \geq 2$$

$$x > 1$$

OR

$$7x + 39 \geq 53 \quad \text{AND} \quad 16x + 15 > 31$$

$$\begin{array}{r} -39 \\ -15 \end{array} \quad \begin{array}{r} -15 \\ -15 \end{array}$$

$$\frac{7x}{7} \geq \frac{14}{7} \quad \frac{16x}{16} > \frac{16}{16}$$

$$x \geq 2 \quad \text{AND} \quad x > 1$$



$$[x \geq 2]$$

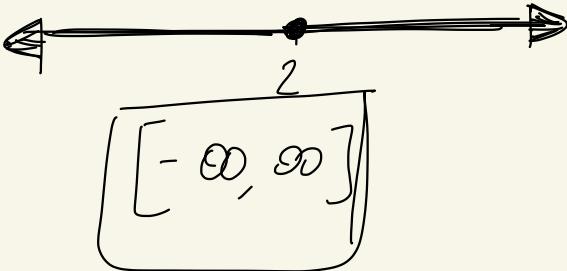

---

$$-18x + 21 > -15 \quad \text{OR} \quad 29x - 13 \geq 27$$

$$\begin{array}{r} -21 \\ -21 \end{array} \quad \begin{array}{r} +13 \\ +13 \end{array}$$

$$\frac{-18x}{-18} > \frac{-36}{-18} \quad \frac{29x}{29} \geq \frac{40}{29}$$

$$x < 2 \quad \text{OR} \quad x \geq 2$$



$$\begin{array}{l}
 -15x + 60 \leq 105 \quad \text{AND} \quad 14x + 11 \leq -31 \\
 \quad \quad -60 \quad -60 \quad \quad \quad -11 \quad -11 \\
 \hline
 -15x \leq 45 \quad \quad \quad 14x \leq -42 \\
 \hline
 \frac{-15}{15} \quad \frac{45}{-15} \quad \quad \quad \frac{14}{14} \quad \frac{-42}{14} \\
 \\ 
 x \geq -3 \quad \text{AND} \quad x \leq -3
 \end{array}$$

$$x = -3$$


---

$$\begin{array}{l}
 5x - 29 > -34 \quad \text{OR} \quad 2x + 31 < 29 \\
 \quad +29 \quad +29 \quad \quad \quad -31 \quad -31 \\
 \hline
 5x > -5 \quad \quad \quad 2x < -2 \\
 \hline
 \frac{5}{5} \quad \frac{-5}{5} \quad \quad \quad \frac{2}{2} \quad \frac{-2}{2} \\
 \\ 
 x > -1 \quad \quad \quad x < -1
 \end{array}$$

---


$$\begin{array}{l}
 -16 \leq 3x + 5 \leq 20 \\
 -5 \quad \quad \quad -5 \quad \quad \quad -5 \\
 \hline
 -21 \leq 3x \leq 15 \\
 \hline
 \frac{-21}{3} \quad \frac{3x}{3} \quad \frac{15}{3} \\
 \\ 
 -7 \leq x \leq 5
 \end{array}
 \left| \begin{array}{l}
 -5 \leq x - 4 \leq 13 \\
 +4 \quad \quad \quad +4 \quad \quad \quad +4 \\
 \hline
 -1 \leq x \leq 17
 \end{array} \right|$$

$$-12 < 2 - 5x \leq 7$$

$$\begin{array}{r} -2 \\ -2 \end{array}$$

$$-14 < \frac{-5x}{-5} \leq \frac{5}{-5}$$

$$\begin{array}{r} -5 \\ -5 \end{array}$$

$$\frac{14}{5} > x \geq -1$$



$$\boxed{-1 \leq x < \frac{14}{5}}$$

$$5x - 4 \geq 12 \quad \text{OR} \quad 12x + 5 \leq -4$$

$$\begin{array}{r} +4 \\ +4 \end{array}$$

$$\begin{array}{r} -5 \\ -5 \end{array}$$

$$\frac{5x}{5} \geq \frac{16}{5} \quad \frac{12x}{12} \leq \frac{-9}{12}$$

$$\boxed{x \geq \frac{16}{5} \quad \text{OR} \quad x \leq -\frac{3}{4}}$$

$$-7x - 50 \leq -1 \quad \text{AND}$$

$$\begin{array}{r} +50 \\ +50 \end{array}$$

$$\frac{-7x}{-7} \leq \frac{49}{-7}$$

$$x \geq -7 \quad \text{AND}$$

$$-6x + 70 > -2$$

$$\begin{array}{r} -70 \\ -70 \end{array}$$

$$\frac{-6x}{-6} > \frac{-72}{-6}$$

$$x < 12$$

$$\boxed{-7 \leq x < 12}$$

$$5x - 19 \leq 1 \quad \text{OR} \quad -4x + 3 < -6$$

$$\begin{array}{r} +19 \\ +19 \end{array}$$

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

$$\frac{5x}{5} \leq \frac{20}{5} \quad \text{OR} \quad \frac{-4x}{-4} < \frac{-9}{-4}$$

$$x \leq 4 \quad \text{OR} \quad x > \frac{9}{4}$$

$$\begin{array}{rcl} 24 + 12r & \geq & 100 \\ -24 & & \\ \hline \end{array}$$

$$12r \geq 76$$

$$r \geq 6.3$$

$$r \geq 7$$

$$7 \cdot 8 = \boxed{56}$$

$$\begin{array}{rcl} 64n - 6 & \geq & 36n - 16 \\ -36n & & -36n \\ \hline \end{array}$$

$$\begin{array}{rcl} 28n - 6 & \geq & -16 \\ +6 & & +6 \\ \hline \end{array}$$

$$\frac{28n}{28} \geq -10$$

$$n \geq -\frac{10}{28}$$

$$n \geq -\frac{5}{14}$$

$$12x + 7 < -11 \text{ AND } 5x - 8 \geq 40$$

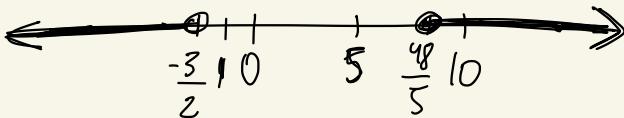
$$-7 \quad -7$$

$$+8 \quad +8$$

$$\frac{12x}{12} < \frac{-18}{12}$$

$$\frac{5x}{5} \geq \frac{48}{5}$$

$$x < -\frac{3}{2} \text{ AND } x \geq \frac{48}{5}$$



No solutions

$$\begin{array}{rcl} -4z + 31 & \geq & 17z + 23 \\ +17z & & +17z \end{array}$$

$$\begin{array}{rcl} 31 & \geq & 21z + 23 \\ -23 & & -23 \end{array}$$

$$\frac{8}{21} \geq \frac{21z}{21} \Rightarrow$$

$$z \leq \frac{8}{21}$$

$$12x - 39 \leq 9$$
$$+39 \quad +39$$

$$\text{AND} \quad -4x + 3 < -6$$
$$-3 \quad -3$$

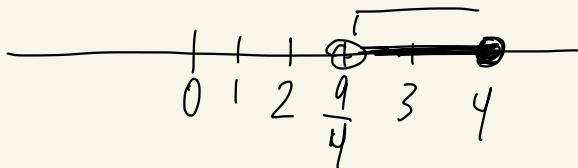
$$\frac{12x}{12} \leq \frac{48}{12}$$

$$\frac{-4x}{-4} < \frac{-9}{-4}$$

$$x \leq 4$$

AND

$$x > \frac{9}{4}$$



$$\boxed{\frac{9}{4} < x \leq 4}$$

$$5x - 4 \geq 12$$

$$+4 \quad +4$$

OR

$$12x + 5 \leq -4$$

$$-5 \quad -5$$

$$5x \geq 16$$

$$\frac{5}{5} \quad \frac{5}{5}$$

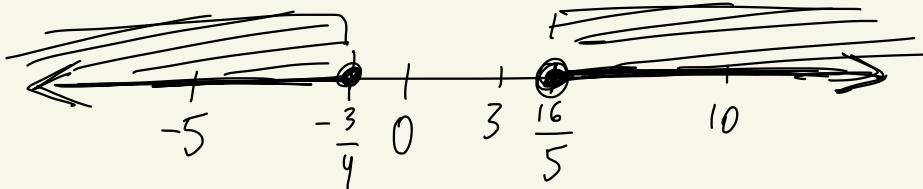
$$12x \leq -9$$

$$\frac{12}{12} \quad \frac{12}{12}$$

$$x \geq \frac{16}{5}$$

OR

$$x \leq -\frac{3}{4}$$



$$-9x + 7 > 18$$

$$-2 \quad -2$$

$$13x + 15 \leq -4$$

$$-15 \quad -15$$

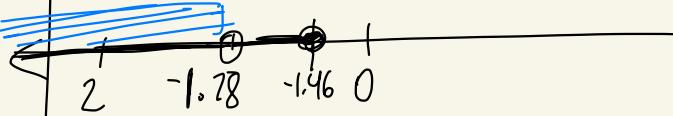
$$\frac{-9x}{-9} > \frac{16}{-9}$$

$$\frac{13x}{13} \leq \frac{-19}{13}$$

$$x < -\frac{16}{9}$$

AND

$$x \leq -\frac{19}{13}$$



$$x < -\frac{16}{9}$$

$$\begin{array}{rcl} 5x - 19 & \leq & 1 \\ +19 & & +19 \end{array}$$

$$\text{AND} \quad \begin{array}{rcl} -4x + 3 & < & -6 \\ -3 & & -3 \end{array}$$

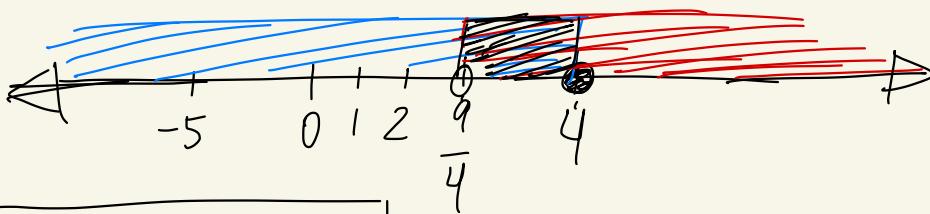
$$\begin{array}{rcl} 5x & \leq & 20 \\ \hline 5 & & 5 \end{array}$$

$$\begin{array}{rcl} -4x & < & -9 \\ \hline -4 & & -4 \end{array}$$

$$x \leq 4$$

AND

$$x > \frac{9}{4}$$



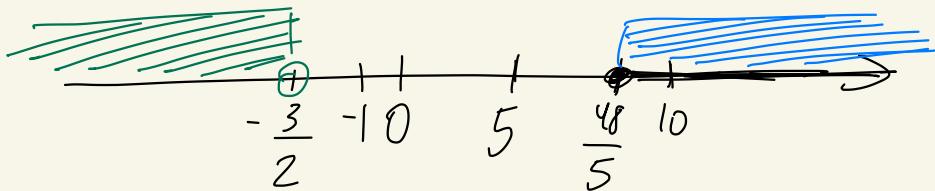
$$\boxed{\frac{9}{4} < x \leq 4}$$

$$12x + 7 < -11 \quad \text{AND} \quad 5x - 8 \geq 40$$

$$\begin{array}{rcl} -7 & -7 \\ \hline 12x & < -18 \end{array}$$

$$\begin{array}{rcl} 5x & \geq 48 \\ \hline 5 & & 5 \end{array}$$

$$x < -\frac{3}{2} \quad \text{AND} \quad x \geq \frac{48}{5}$$



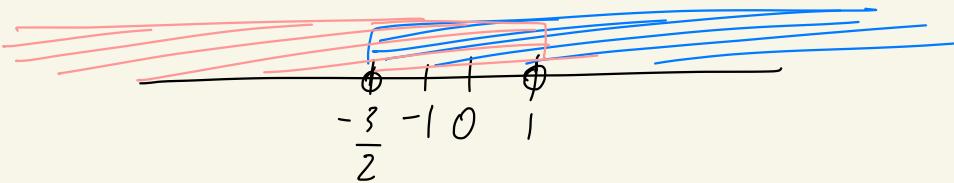
No Solution

$$\begin{array}{l} |x| + 4 < 15 \\ -4 \quad -4 \end{array} \quad \text{OR} \quad \begin{array}{l} 12x - 7 > -25 \\ +7 \quad +7 \end{array}$$

$$\begin{array}{r} |x| < 11 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 12x > -18 \\ \hline 18 \end{array}$$

$$x < 1 \quad \text{OR} \quad x > -\frac{3}{2}$$



All solutions

$$\begin{array}{rcl} 3x - 91 > -87 \\ +91 \quad +91 \end{array}$$

$$\frac{3x}{3} > \frac{4}{3}$$

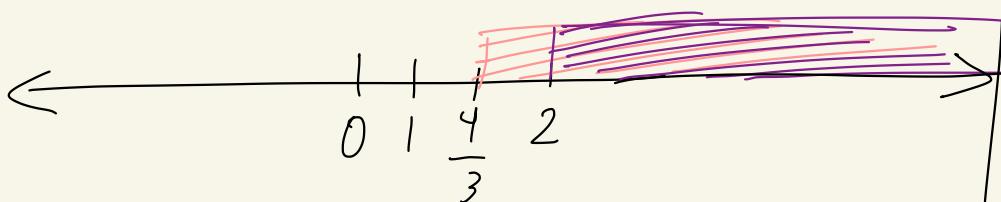
$$\begin{array}{rcl} 17x - 16 > 18 \\ +16 \quad +16 \end{array}$$

$$\frac{17x}{17} > \frac{34}{17}$$

$$x > \frac{4}{3}$$

AND

$$x > 2$$

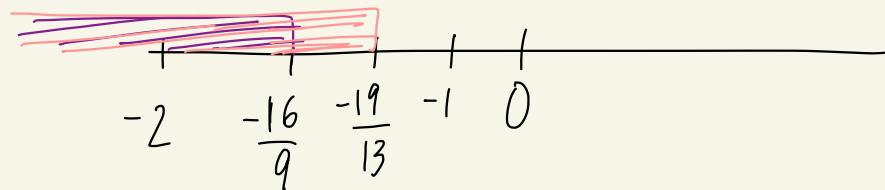


$$\boxed{x > 2}$$

$$\begin{array}{rcl} -9x + 2 > 18 & \text{OR} & 13x + 15 \leq -4 \\ -2 & -2 & -15 & -15 \end{array}$$

$$\begin{array}{c} \cancel{-9x} > \frac{16}{-9} \\ \hline \end{array} \quad \begin{array}{c} 13x \leq \frac{-19}{13} \\ \hline \end{array}$$

$$x < -\frac{16}{9} \quad \text{OR} \quad x \leq -\frac{19}{13}$$



$$\boxed{x \leq -\frac{19}{13}}$$

$$\begin{array}{rcl} \cancel{\$4} + 12r & \geq & 100 \\ -\cancel{24} & & -24 \end{array} \quad \left| \begin{array}{l} \cancel{\$25} + 5.5s \leq 30 \\ -\cancel{3.25} \end{array} \right. \quad \begin{array}{l} \frac{12r}{12} \geq \frac{76}{12} \\ r \geq \frac{19}{3} \end{array}$$

$$\frac{5.5s}{5.5} \leq \frac{26.75}{5.5} \quad s \leq \underline{4.863}$$

$$s \approx 4$$

$$4 \cdot 4 = \boxed{16 \text{ pancakes}}$$

$$r \geq 6.3$$

$$r \approx 7$$

$$7.8 = \boxed{\$56}$$

$$\begin{array}{rcl} \cancel{\$4} + 83F & \geq & 175 \\ -\cancel{34} & & -34 \end{array}$$

$$\frac{83F}{23} \geq \frac{141}{23}$$

$$F \geq 6.13$$

$$F \approx 7$$

$$\cancel{\$75} + 11.50s \leq 55 \quad -\cancel{2.75}$$

$$\frac{11.50s}{11.50} \leq \frac{52.25}{11.50}$$

$$s \leq 4.54$$

$$s \approx \boxed{4 \text{ boxes}}$$

$$54x + 64 \geq 49x + 59$$

$$-49x \quad -49x$$

$$5x + 64 \geq 59$$

$$-64 \quad -64$$

$$\frac{5x}{5} \geq \frac{-5}{5}$$

$$x \geq -1$$


---


$$7.5p + 14p < 60$$

$$-7.50 \quad -7.50$$

$$\frac{14p}{14} < \frac{52.5}{14}$$

$$p < 3.75$$

$$p \approx 3$$

$$3 \cdot 8 = 24 \text{ slices}$$

$$-9x + 5 \leq 17$$

$$-5 \quad -5$$

$$\frac{-9x}{-9} \leq \frac{12}{-9}$$

OR

$$13x + 25 \leq -1$$

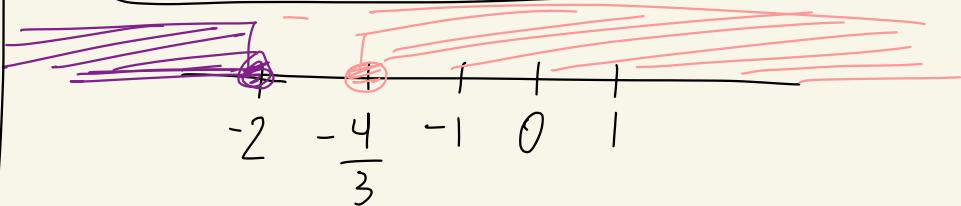
$$-25 \quad -25$$

$$\frac{13x}{13} \leq \frac{-26}{13}$$

$$x \geq -\frac{4}{3}$$

OR

$$x \leq -2$$



$$65 + 28H \leq 250$$

$$-65 \quad -65$$

$$\frac{28H}{28} \leq \frac{185}{28}$$

$$H \leq 6.60$$

$$H \approx 6$$

$$-8x + 3 \geq 27 \quad \text{AND} \quad -13x + 5 \geq 57$$

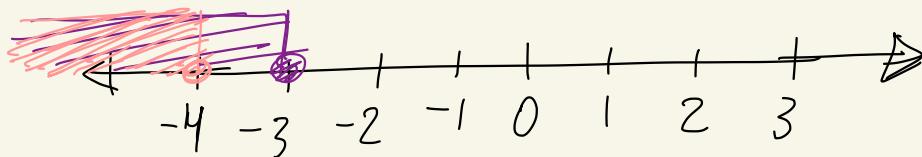
$$-3 \quad -3$$

$$-5 \quad -5$$

$$\frac{-8x}{-8} \geq \frac{24}{-8}$$

$$x \leq -3 \quad \text{AND} \quad \frac{-13x}{-13} \geq \frac{52}{-13}$$

$$x \leq -4$$



$$x \leq -4$$

$$\begin{array}{rcl}
 4t - 3 & > 37t - 50 \\
 -4t & & \\
 -3 & > 33t - 50 \\
 +50 & & +50
 \end{array}$$

$$\frac{47}{33} > \frac{33t}{33}$$

$$\boxed{t < \frac{47}{33}}$$

$$\begin{array}{rcl}
 0.75(8b+4) - 1 & = & 4b + 14 \\
 6b + 3 - 1 & = & 4b + 14 \\
 6b + 2 & = & 4b + 14 \\
 -4b & & -4b \\
 2b + 2 & = & 14 \\
 -2 & & -2 \\
 \cancel{2b} & = & 12 \\
 \cancel{2} & & \cancel{2} \\
 \boxed{b = 6}
 \end{array}$$

$$\cancel{3(x+2)} = 18$$

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

$$\boxed{x = 4}$$

$$\begin{array}{rcl}
 py + 7 & = & 6y + q \\
 & & -6y
 \end{array}$$

$$\begin{array}{rcl}
 py + p - 6y & = & q \\
 -p & & -7
 \end{array}$$

$$\begin{array}{rcl}
 py - 6y & = & q - 7
 \end{array}$$

$$\begin{array}{rcl}
 y(p-6) & = & q-7 \\
 \cancel{p-6} & & \cancel{p-6}
 \end{array}$$

$$y = \frac{q-7}{p-6}$$

$$4.5 + 1.5k = 18 - 3k$$
$$+3k \quad \quad \quad +3k$$

$$35 + 12c \geq 100$$
$$-35 \quad \quad \quad -35$$

$$4.5k + 4.5 = 18$$
$$-4.5 \quad \quad \quad -4.5$$

$$\frac{12c}{12} \geq \frac{65}{12}$$

$$4.5k = 13.5$$
$$\frac{4.5}{4.5} \quad \quad \quad \frac{4.5}{4.5}$$

$$\boxed{k = 3}$$

$$c \geq 5.416$$

$$\boxed{c \approx 6}$$

$$60z + 50 - 97z = -37z + 49$$

$$-37z + 50 = -37z + 49$$
$$+37z \quad \quad \quad +37z$$

$$50 \neq 49$$

$$12x + 7 < -11$$

$$\underline{-7} \quad \underline{-7}$$

$$\cancel{12x} < -18$$

$$\underline{18} \quad \underline{12}$$

OR

$$5x - 8 > 40$$

$$\underline{+8} \quad \underline{+8}$$

$$\cancel{5x} > \frac{48}{5}$$

$$x < -\frac{3}{2}$$

OR

$$x > \frac{48}{5}$$

