

July 30, 2022



$$\begin{array}{r} 46 + 5 = 1 + 56 \\ -46 \qquad -46 \end{array}$$

$$\begin{array}{r} 5 = 1 + 6 \\ -1 \quad -1 \end{array}$$

$$\boxed{4 = 6}$$

$$\begin{array}{r} 5.88 = 3(p + 0.75) \\ 3 \qquad 3 \end{array}$$

$$\begin{array}{r} 1.96 = p + 0.75 \\ -0.75 \quad -0.75 \\ \hline 1.21 \end{array}$$

$$\boxed{1.21 = p}$$

$$m = -(4 + m) + 2$$

$$m = \underline{-4} - m \underline{+ 2}$$

$$\begin{array}{r} m = -2 - m \\ +m \qquad +m \end{array}$$

$$\frac{2m}{2} = \frac{-2}{2}$$

$$\boxed{m = -1}$$

$$-3 + 5 + 6g = 11 - 3g$$

$$\begin{array}{r} 2 + 6g = 11 - 3g \\ +3g \qquad +3g \end{array}$$

$$\begin{array}{r} 2 + 9g = 11 \\ -2 \qquad -2 \end{array}$$

$$\frac{9g}{9} = \frac{9}{9}$$

$$\boxed{g = 1}$$

$$2 - 16t = 6(-3t + 2)$$

$$\begin{array}{r} 2 - 16t = -18t + 12 \\ +18t \quad +18t \end{array}$$

$$\begin{array}{r} 2 + 2t = 12 \\ -2 \quad -2 \end{array}$$

$$\begin{array}{r} 2t = 10 \\ 2 \quad 2 \end{array}$$

$$\boxed{t = 5}$$

$$\begin{array}{r} 100 < 34 + 12d \\ -34 \quad -34 \end{array}$$

$$\begin{array}{r} 66 < 12d \\ 12 \quad 12 \end{array}$$

$$5.5 < d$$

$$\boxed{d > 5.5}$$

$$\begin{array}{r} 3 + 1.20c \geq 13.50 \\ -3 \quad -3 \end{array}$$

$$\begin{array}{r} 1.20c \geq 10.50 \\ 1.20 \quad 1.20 \end{array}$$

$$\boxed{c \geq 8.75}$$

$$\begin{array}{r} -23d + 81 \leq -98d + 1 \\ +98d \quad +98d \end{array}$$

$$\begin{array}{r} 75d + 81 \leq 1 \\ -81 \quad -81 \end{array}$$

$$\begin{array}{r} 75d \leq -80 \\ 75 \quad 75 \end{array}$$

$$\boxed{d \leq -\frac{16}{15}}$$

$$\begin{array}{r} 5y + 3 > -7y + 13 \\ -7y \quad +7y \end{array}$$

$$\begin{array}{r} 12y + 3 > 13 \\ -3 \quad -3 \end{array}$$

$$\begin{array}{r} 12y > 10 \\ 12 \quad 12 \\ y > \frac{10}{12} \end{array}$$

$$\boxed{y > \frac{5}{6}}$$

$$22 \leq \frac{1}{4}m + \frac{3}{2}m + m$$

$$\frac{1}{4} + \frac{3 \cdot 2}{2 \cdot 2}$$

$$\frac{1}{4} + \frac{6}{4} = \frac{7}{4}$$

$$\frac{7}{4}m + \frac{1}{1}m$$

$$\frac{7}{4}m + \frac{4}{4}m$$

$$\frac{\cancel{11}}{\cancel{4}}m \geq \frac{22}{\frac{\cancel{11}}{4}}$$

$$\boxed{m \geq 8}$$

$$\frac{22}{1} \div \frac{11}{4}$$

$$\frac{22}{1} \cdot \frac{4}{11} = \frac{88}{11}$$

$$= 8$$

$$\begin{array}{r} 60a + 64 \geq 80a - 92 \\ -60a \quad -60a \end{array}$$

$$\begin{array}{r} 64 \geq 20a - 92 \\ +92 \quad +92 \\ \hline 156 \end{array}$$

$$\frac{156}{20} \geq \frac{20a}{20}$$

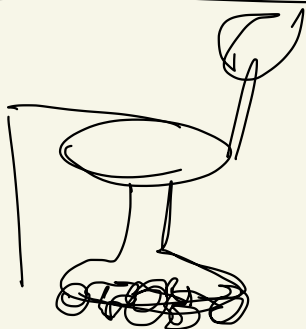
$$\boxed{\frac{39}{5} \geq a}$$

$$\begin{array}{r} 5\frac{1}{6} + 7\frac{1}{3}l \leq 60 \\ -5\frac{1}{6} \quad -5\frac{1}{6} \end{array}$$

$$\frac{7\frac{1}{3}l}{7\frac{1}{3}} \leq \frac{329}{6 \cdot 7\frac{1}{3}}$$

$$l \leq \frac{329}{44}$$

$$l \leq 7.47$$



$$74.5 < 49.3 + 4.8r$$

$$\begin{array}{r} 49.3 + 4.8r < 74.5 \\ -49.3 \quad -49.3 \end{array}$$

$$\frac{4.8r}{4.8} < \frac{25.2}{4.8}$$

$$\boxed{r < 5.25}$$

$$\begin{array}{rcl} 12t - 2 < -5t + 36 \\ +5t & & +5t \end{array}$$

$$\begin{array}{rcl} 17t - 2 < 36 \\ +2 & & +2 \end{array}$$

$$\frac{17t}{17} < \frac{38}{17}$$

$$t < \frac{38}{17}$$

$$\begin{array}{rcl} -65y + 19 < -2y + 41 \\ +65y & & +65y \end{array}$$

$$\begin{array}{rcl} 19 < 63y + 41 \\ -41 & & -41 \end{array}$$

$$\begin{array}{rcl} -22 < 63y \\ \hline 63 & & 63 \end{array}$$

$$-\frac{22}{63} < y$$

$$\begin{array}{rcl} 32 & \leq & 5 + 4p \\ -5 & & -5 \end{array}$$

$$5 + 4p \geq 32$$

$$\frac{27}{4} \leq \frac{4p}{4}$$

$$p \geq \frac{27}{4} \quad \text{--- } 6.75$$

$$\begin{array}{rcl} 100 & \leq & 24 + 3r \\ -24 & & -24 \end{array}$$

$$\frac{76}{3} \leq \frac{3r}{3}$$

$$24 + 3r \geq 100$$

$$\frac{76}{3} \leq r$$

$$\frac{76}{3} = 25.3$$

$$\frac{5}{2} = \frac{q+11}{6}$$

$$\frac{6 \cdot 5}{2} = q + 11$$

$$\frac{30}{2} =$$

$$15 = q + 11$$

$$-11$$

$$\boxed{4 = q}$$

$$\frac{99}{9} = \frac{x}{12}$$

$$\frac{99 \cdot 12}{9} = x$$

$$\frac{1188}{9} = x$$

$$\boxed{132 = x}$$

$$\frac{4}{14} = \frac{10}{x}$$

$$\frac{10 \cdot 14}{4} = \frac{140}{4} = \boxed{35}$$

$$\frac{5}{9} = \frac{10}{k-12}$$

$$\frac{10 \cdot 9}{5} = k - 12$$

$$\frac{90}{5} = k - 12$$

$$18 = k - 12$$

$$\boxed{30 = k}$$

$$\frac{216}{4} = p + 1$$

$$54 = p + 1$$

$$\boxed{53 = p}$$

$$\frac{p+1}{24} = \frac{9}{4}$$

$$\frac{24 \cdot 9}{4} = p + 1$$

Unit Test

$$\begin{array}{r} -31p + 79 > -59p + 81 \\ +59p & +59p \end{array}$$

$$\begin{array}{r} 28p + 79 > 81 \\ -79 & -79 \end{array}$$

$$\frac{28p}{28} > \frac{2}{28}$$

$$\boxed{p > \frac{1}{14}}$$

$$34 = 2(6.5) + 2l$$

$$34 = 13 + 2l$$

$$\begin{array}{r} -13 & -13 \\ \hline 21 & = 2l \\ \hline 2 & 2 \end{array}$$

$$\frac{21}{2} = l$$

$$\boxed{10.5 = l}$$

$$22 < \frac{1}{4}m + \frac{3}{2}m + m$$

$$\begin{array}{r} 22 < \frac{11}{4}m \\ \frac{11}{4} & \frac{11}{4} \end{array}$$

$$\frac{22}{1} \cdot \frac{4}{11} = \frac{88}{11} = 8$$

$$\frac{2}{50} = \frac{x}{325}$$

$$\frac{325 \cdot 2}{50} = x$$

$$\frac{650}{50} = x$$

$$\boxed{13 = x}$$

$$8 < m \text{ or } \boxed{m > 8}$$

$$\frac{6}{(k-11)} = \frac{2}{7}$$

$$\cdot \cancel{k-11}$$

$$\frac{6}{\frac{2}{7}} = \frac{\cancel{2} (k-11)}{\cancel{2}} \cdot \frac{7}{\cancel{7}}$$

$$6 \cdot \frac{7}{2} = \frac{42}{2} = 21$$

$$\begin{array}{r} 21 = k - \cancel{11} \\ +11 \\ \hline \end{array}$$

$$\boxed{32 = k}$$

$$2(5-d) = 2 - 4d$$

$$\begin{array}{r} 10 - 2d = 2 - \cancel{4d} \\ +4d \quad +4d \end{array}$$

$$\begin{array}{r} \cancel{10} + 2d = 2 \\ -10 \quad -10 \end{array}$$

$$\frac{2d}{2} = \frac{-8}{2}$$

$$\boxed{d = -4}$$

$$\frac{11}{6} = \frac{k-5}{\cancel{18}} \cdot \frac{\cancel{18}}{18}$$

$$\frac{11}{6} \cdot \frac{18}{1} = \frac{198}{6} = 33$$

$$\begin{array}{r} 33 = k - \cancel{5} \\ +5 \quad +5 \end{array}$$

$$\boxed{38 = k}$$

$$9g = 3(-4 + 5g)$$

$$\begin{array}{r} 9g = -12 + \cancel{15g} \\ -15g \quad -15g \end{array}$$

$$\begin{array}{r} -6g = -12 \\ -6 \quad -6 \end{array}$$

$$\boxed{g = 2}$$

$$\frac{22}{8} = \frac{55}{p}$$

$$p = 20$$

$$\frac{55 \cdot 8}{22} = \frac{440}{22} = 20$$