July 30, 2022

$4b + 5 = 1 + 5b$

$-4b \qquad -4b$

$5 = 1 + b$

$-1 \quad -1$

$\boxed{4 = b}$

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

$m = -4 - m + 2$

$m = -2 - m$

$+m \qquad +m$

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

$\boxed{m = -1}$

$\frac{5.88}{3} = \frac{3(p + 0.75)}{3}$

$1.96 = p + 0.75$

$-0.75 \qquad -0.75$

1.21

$\boxed{1.21 = p}$

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

$2 + 6g = 11 - 3g$

$+3g \qquad +3g$

$2 + 9g = 11$

$-2 \qquad -2$

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

$\boxed{g = 1}$

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

$2 - 16t = -18t + 12$

$+18t \quad +18t$

$2 + 2t = 12$

$-2 \quad -2$

$\frac{2t}{2} = \frac{10}{2}$

$\boxed{t = 5}$

$3 + 1.20c \geq 13.50$

$-3 \quad -3$

$\frac{1.20c}{1.20} \geq \frac{10.50}{1.20}$

$\boxed{c \geq 8.75}$

$-23d + 81 \leq -98d + 1$

$+98d \quad +98d$

$75d + 81 \leq 1$

$-81 \quad -81$

$\frac{75d}{75} \leq \frac{-80}{75}$

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

$100 < 34 + 12d$

$-34 \quad -34$

$\frac{66}{12} < \frac{12d}{12}$

$5.5 < d$

$\boxed{d > 5.5}$

$5y + 3 > -7y + 13$

$-7y \quad +7y$

$12y + 3 > 13$

$-3 \quad -3$

$\frac{12y}{12} > \frac{10}{12}$

$y > \frac{10}{12}$

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

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

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

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

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

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

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

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

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

$$= 8$$

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

$60a + 64 \geq 80a - 92$

$-60a \qquad -60a$

$64 \geq 20a - 92$

$+92 \qquad +92$

156

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

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

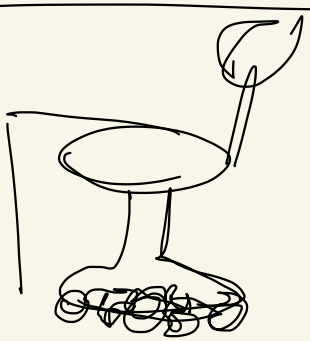
$5\frac{1}{6} + 7\frac{1}{3}l \leq 60$

$-5\frac{1}{6} \qquad -5\frac{1}{6}$

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

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

$l \leq 7.47$



$74.5 < 49.3 + 4.8r$

$49.3 + 4.8r < 74.5$

$-49.3 \qquad -49.3$

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

$\boxed{r < 5.25}$

$12t - 2 < -5t + 36$

$+5t \quad +5t$

$17t - 2 < 36$

$+2 \quad +2$

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

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

$32 \leq 5 + 4p$

$-5 \quad -5$

$5 + 4p \geq 32$

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

$p \geq \frac{27}{4}$ — 6.75

$-65y + 19 < -2y + 41$

$+65y \quad +65y$

$19 < 63y + 41$

$-41 \quad -41$

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

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

$100 \leq 24 + 3r$

$-24 \quad -24$

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

$24 + 3r \geq 100$

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

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

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

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

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

$$15 = q + 11$$

$$-11 \quad -11$$

$$\boxed{4 = q}$$

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

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

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

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

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

$$18 = k - 12$$

$$+12 \quad +12$$

$$\boxed{30 = k}$$

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

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

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

$$\boxed{132 = x}$$

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

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

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

$$54 = p + 1$$

$$-1 \quad -1$$

$$\boxed{53 = p}$$

Unit Test

$-31p + 79 > -59p + 81$

$+59p \quad +59p$

$28p + 79 > 81$

$-79 \quad -79$

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

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

$34 = 2(6.5) + 2l$

$34 = 13 + 2l$

$-13 \quad -13$

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

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

$10.5 = l$

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

$\frac{22}{\frac{11}{4}} < \frac{\frac{11}{4}m}{\frac{11}{4}}$

$\frac{22}{1} \cdot \frac{4}{11} = \frac{88}{11} = 8$ → $8 < m$ or $m > 8$

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

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

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

$13 = x$

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

$\cdot(k-11)$

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

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

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

$$21 = k - 11$$

$+11 \quad +11$

$$32 = k$$

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

$$10 - 2d = 2 - 4d$$

$+4d \quad +4d$

$$10 + 2d = 2$$

$-10 \quad -10$

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

$$d = -4$$

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

$\cdot 18 \quad \cdot 18$

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

$$33 = k - 5$$

$+5 \quad +5$

$$38 = k$$

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

$$9g = -12 + 15g$$

$-15g \quad -15g$

$$\frac{-6g}{-6} = \frac{-12}{-6}$$

$$g = 2$$

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

$$\boxed{p = 20}$$

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