

7.2.2

HWK

$$\begin{array}{r} 33 \overline{) 132} \\ \underline{132} \\ 0 \end{array}$$

7-112)

a)  $\frac{35}{70} = \frac{x}{100}$

b)  $\frac{12}{33} = \frac{m}{11}$

$$\frac{70x}{70} = \frac{3500}{70}$$

$$\frac{132}{33} = \frac{33m}{33}$$

$$x = 50$$

$$4 = m$$

c)  $\frac{x}{15} = \frac{12}{75}$

$$\begin{array}{r} 12 \\ 15 \overline{) 120} \\ \underline{60} \\ 120 \\ \underline{180} \end{array}$$

$$\begin{array}{r} 2.4 \\ 75 \overline{) 1800} \\ \underline{1500} \\ 300 \\ \underline{300} \\ 0 \end{array}$$

$$\frac{75x}{75} = \frac{180}{75}$$

$$x = 2.4$$

d)  $\frac{4}{32} = \frac{10.5}{x}$

$$\begin{array}{r} 10.5 \\ 32 \overline{) 3150} \\ \underline{2100} \\ 3150 \\ \underline{3360} \end{array}$$

$$\begin{array}{r} 84 \\ 4 \overline{) 336} \\ \underline{320} \\ 16 \end{array}$$

$$\frac{4x}{4} = \frac{336}{4}$$

$$x = 84$$

7-113)

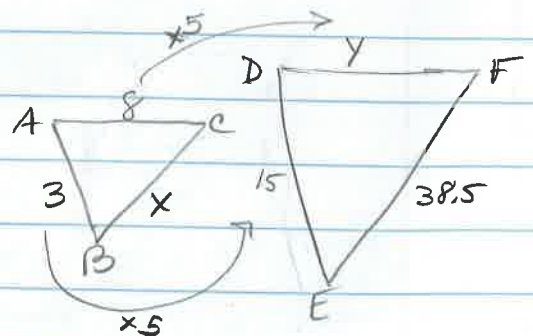
a)  $\frac{15}{3} = \frac{5}{1}$

$$\frac{3}{x} \xrightarrow{\times 5} \frac{15}{38.5}$$

b)  $x = 7.7$

$$7.7 \xrightarrow{\times 5}$$

c)  $y = 40$



7-114)  $2^{\text{nd}}$  wk  $18$  more than  $1^{\text{st}}$  wk  $(w)$   $w+18$   
 $3^{\text{rd}}$  wk  $4$  less than twice  $2^{\text{nd}}$  wk  $2(w+18)-4$   
 $4^{\text{th}}$  wk  $92$  cust.  
 $382$  total

$$382 = w + (w+18) + 2(w+18) - 4 + 92$$

$$382 = w + w + 18 + 2w + 36 - 4 + 92$$

$$382 = 4w + 142$$

$$\begin{array}{r} -142 \\ \hline \end{array}$$

$$\begin{array}{r} 240 = 4w \\ \hline 4 \quad 4 \end{array}$$

$60 = w$  so  $2^{\text{nd}}$  wk  $(w+18) = 60+18 = 78$   
 customers in  
week 2

7-115)

a)  $x - \frac{3}{5} = 1\frac{2}{5}$

$$x - \frac{3}{5} = \frac{7}{5}$$

$$\left(\frac{10}{5}\right) - \frac{3}{5} = \frac{7}{5}$$

$$x = \frac{10}{5} = 2$$

b)  $5.2 + x = 10.95$

$$\begin{array}{r} -5.2 \\ \hline \end{array}$$

$$x = 5.75$$

c)  $2x - 3.25 = 7.15$

$$\begin{array}{r} +3.25 \quad +3.25 \\ \hline \end{array}$$

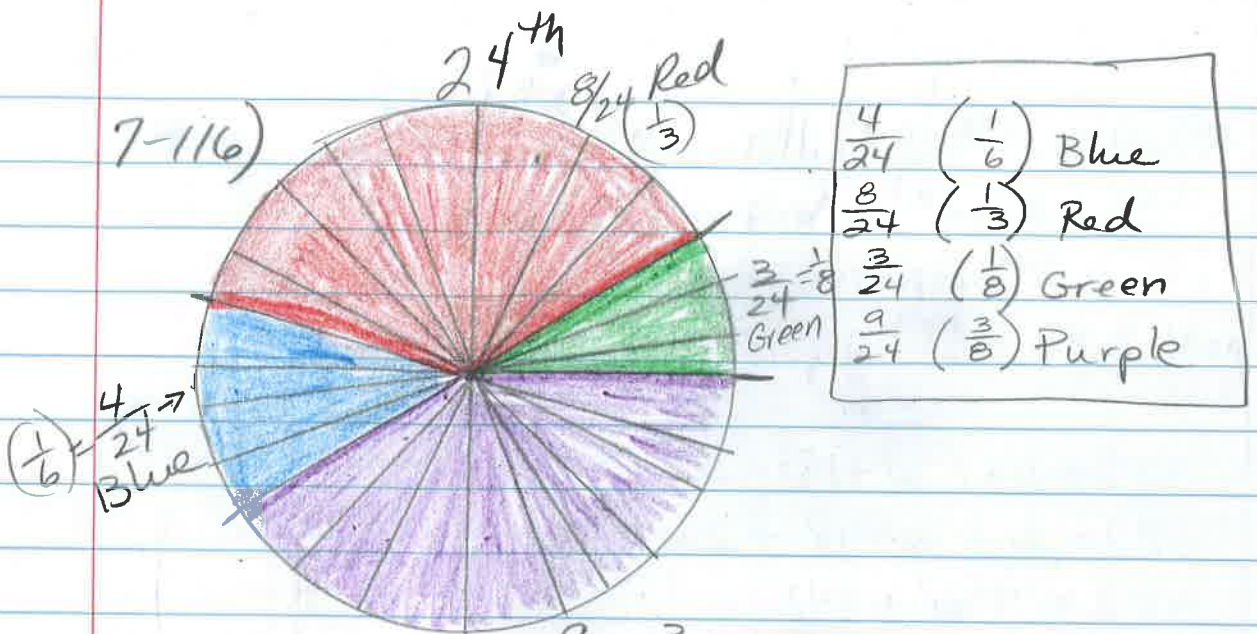
$$2x = 10.40$$

$$\frac{2x}{2} = \frac{10.40}{2}$$

$$x = 5.20$$

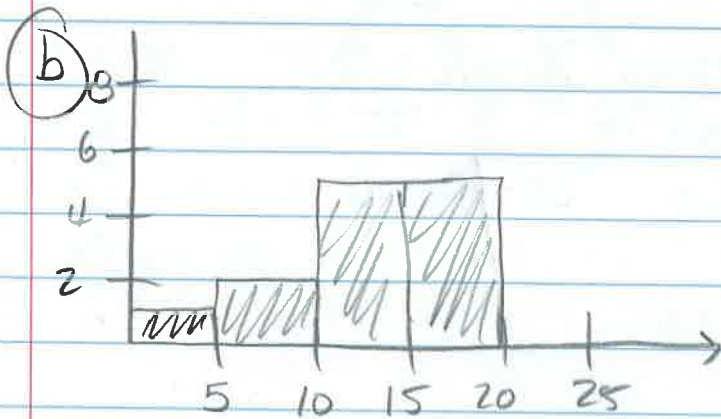
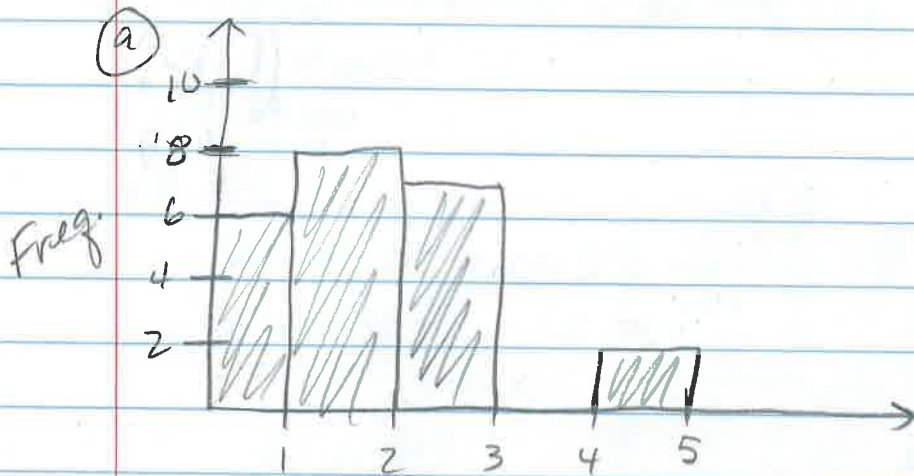
d)  $\frac{x}{16} = \frac{3}{8}$

$$x = 6$$

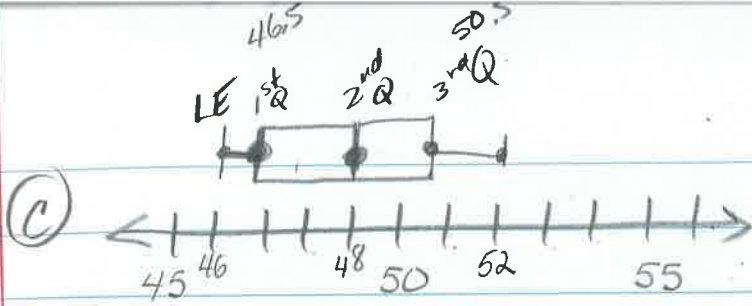


$\frac{9}{24} = \frac{3}{8}$  Purple

$P(\text{Purple}) = \frac{3}{8}$



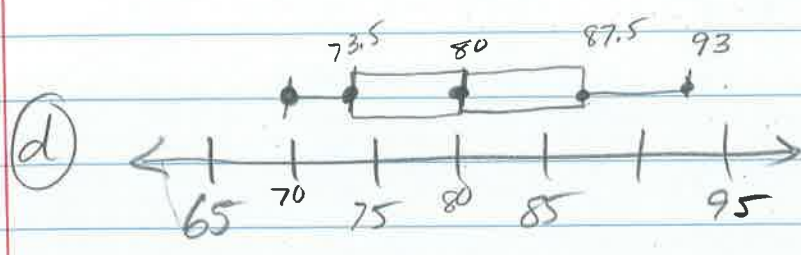




$$Q_2 = 48$$

$$Q_1 = 46.5 \quad Q_3 = 50.5$$

$$IQR = 4$$



$$Q_1 = 73.5 \quad Q_2 = 80$$

$$Q_3 = 87.5$$

$$IQR = 14$$