

7.1.6
Hwk

$$\begin{aligned} 7-70) \quad & \frac{3}{2} + \frac{2x}{5} = \frac{7}{10} \\ a) \quad & 10\left(\frac{3}{2}\right) + 10\left(\frac{2x}{5}\right) = 10\left(\frac{7}{10}\right) \\ & \frac{30}{2} + \frac{20x}{5} = \frac{70}{10} \\ & 15 + 4x = 7 \\ & \begin{array}{r} -15 \qquad -15 \\ \hline 4x = -8 \\ \frac{4}{4} \quad \frac{4}{4} \\ x = -2 \end{array} \end{aligned}$$

$$\begin{aligned} b) \quad & -\frac{8x}{5} + \frac{1}{6} = -\frac{5x}{3} \\ (30) \quad & -\frac{8x}{5} + (30)\frac{1}{6} = 30\left(-\frac{5x}{3}\right) \\ & -\frac{240x}{5} + \frac{30}{6} = -\frac{150x}{3} \\ & -48x + 5 = -50x \\ & \begin{array}{r} +48x \qquad +48x \\ \hline 5 = -2x \\ -2 \qquad -2 \\ -2\frac{1}{2} = x \end{array} \end{aligned}$$

$$\begin{aligned} 7-71) \quad & -4.9x = 9.8 \\ a) \quad (10) \quad & -4.9x = 10(9.8) \\ & -49x = 98 \\ & \begin{array}{r} -49 \quad -49 \\ \hline x = -2 \end{array} \end{aligned}$$

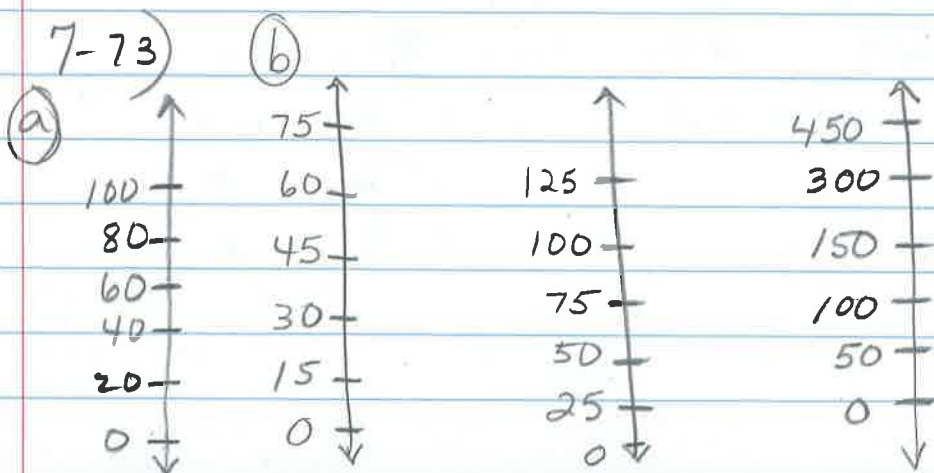
$$\begin{aligned} b) \quad & \frac{8}{21} = -\frac{2}{7}x \\ (21) \quad & \frac{8}{21} = -\frac{2}{7}x(21) \\ & \frac{168}{21} = -\frac{42}{7}x \\ & 8 = -6x \\ & \begin{array}{r} -6 \quad -6 \\ \hline -\frac{4}{3} = x \end{array} \end{aligned}$$

$$\begin{aligned} \textcircled{C} \quad \frac{3}{5} + x &= \frac{2}{3} \\ (15) \quad \frac{3}{5} + 15x &= 15\left(\frac{2}{3}\right) \\ \frac{45}{5} + 15x &= \frac{30}{3} \\ 9 + 15x &= 10 \\ -9 \quad \quad -9 & \\ \hline 15x &= 1 \\ x &= \frac{1}{15} \end{aligned}$$

7-72) $x = \#$ of zucchini plants
 $43 =$ total plants
 $2x =$ cucumbers
 $2x + 8 =$ tomatoes

$$\begin{aligned} x + 2x + 2x + 8 &= 43 \\ 5x + 8 &= 43 \\ -8 \quad -8 & \\ \hline 5x &= 35 \\ \frac{5x}{5} &= \frac{35}{5} \end{aligned}$$

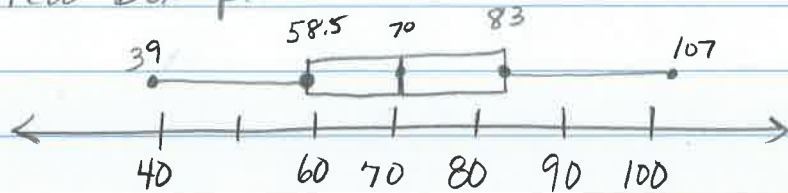
$x = 7$ 7 zucchini plants
 $2x$ or 14 cucumber plants
 $2x + 8$ or 22 tomato plants



7-74)

a) $80 - 62 = 18$ IQR

b) new box plot



new median = 70

1st Q = 58.5

LE = 39

3rd Q = 83

UE = 107

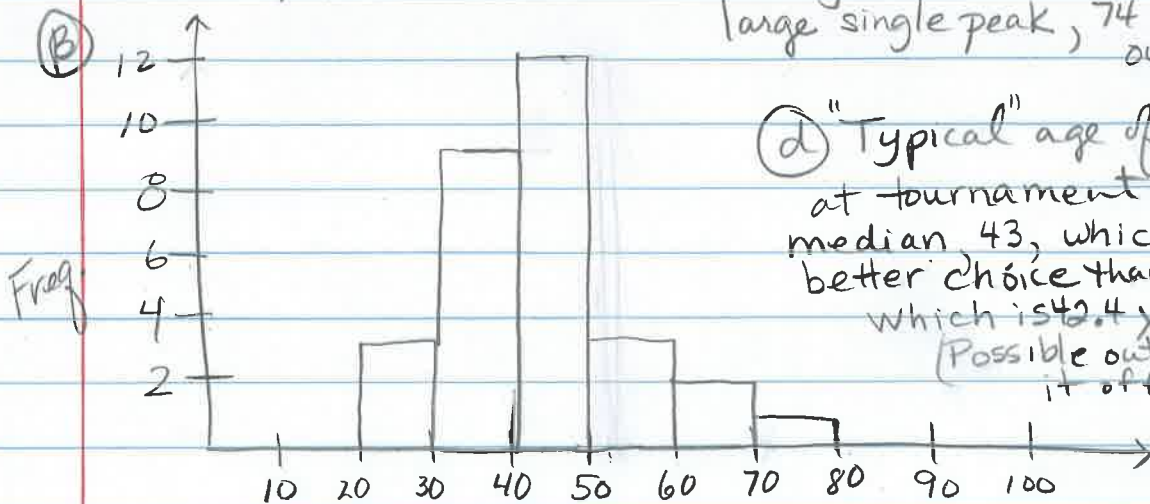
7-75)

a) stem + leaf plot

Stem	leaves
2	5 8 9
3	0 2 3 4 4 5 5 7 8
4	0 2 3 3 3 4 4 5 5 6 7 8
5	0 1 7
6	0 3
7	4

c) The data is slightly non-symmetrical and has a large single peak, 74 is possible outlier

b)



d) "Typical" age of golfer at tournament is the median, 43, which is a better choice than the avg which is 42.4 yrs. old (Possible outlier throws it off a bit.)

Age