

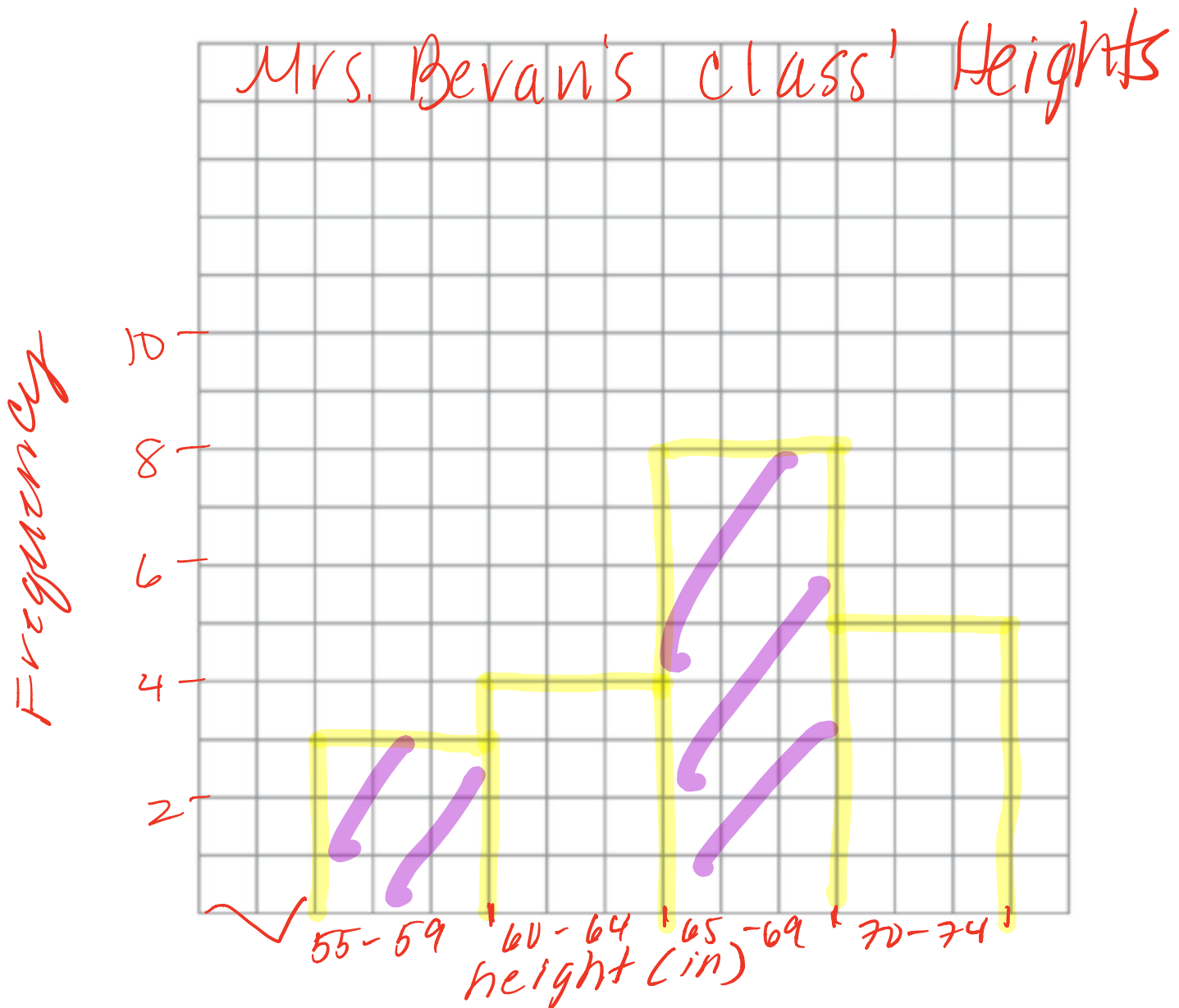
1. The following set of data represents the heights, in inches, of the 20 students in Mrs. Bevan's social studies class:

63, 56, 67, 59, 70, 69, 62, 74, 66, 72, 67, 60, 70, 66, 67, 58, 68, 72, 63, 67

Complete the frequency table below.

Heights of Students		
Interval	Tally	Frequency
55 - 59		3
60 - 64		4
65 - 69		8
70 - 74		5

On the grid below, draw and label a frequency histogram for these data.



4. The data below represents the high temperatures recorded during 2 weeks in February. Construct a Box plot using this data.

~~34~~ ~~35~~ ~~41~~ ~~35~~ ~~29~~ ~~25~~ ~~21~~
~~15~~ ~~16~~ ~~12~~ ~~21~~ ~~19~~ ~~22~~ ~~14~~

Minimum: 12

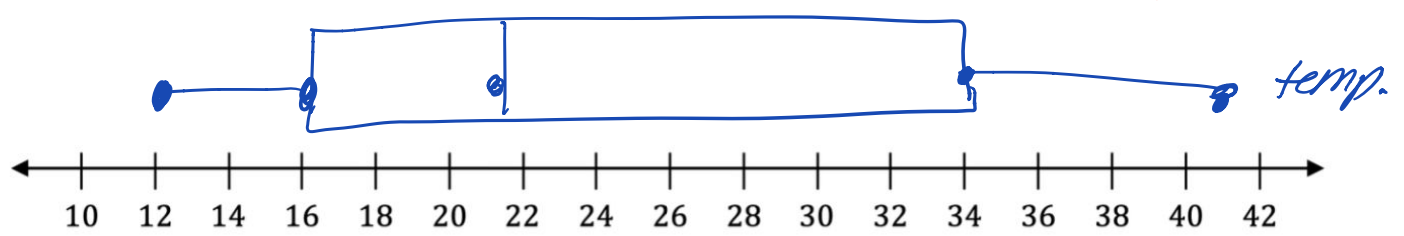
1st Quartile: 16

Median (2nd Quartile): 21.5

3rd Quartile: 34

Maximum: 41

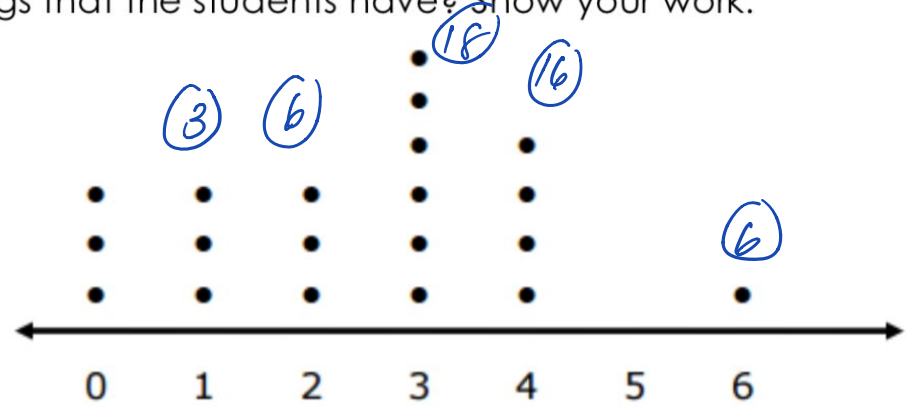
stem | leaf
 1 | 2 4 5 6 9
 2 | 1 1 2 5 9
 3 | 4 5 5
 4 | 1
 key 4/1 = 41



What is the interquartile range (IQR) of the data set? 18

$$34 - 16 = 18$$

5. The students were surveyed about the number of siblings they have. The dot plot is used to display the information obtained. What is the mean number of siblings that the students have? Show your work.

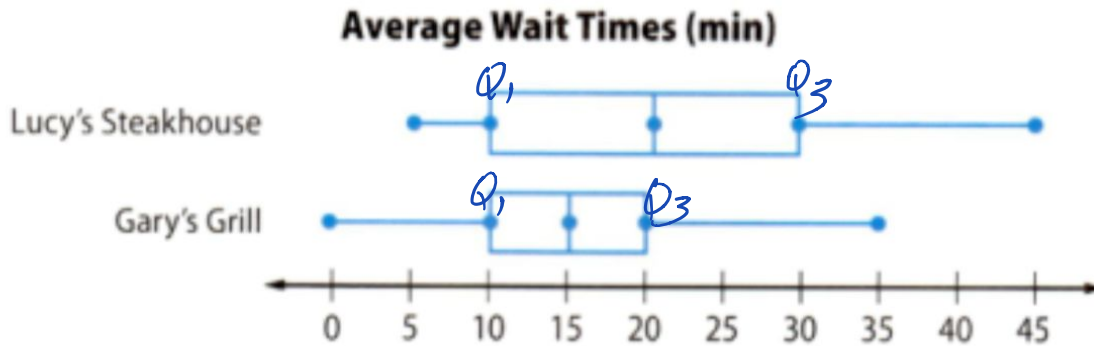


Sum = 49

$$\frac{49}{20} = 2.45$$

Mean = 2.45 \rightarrow 2 siblings

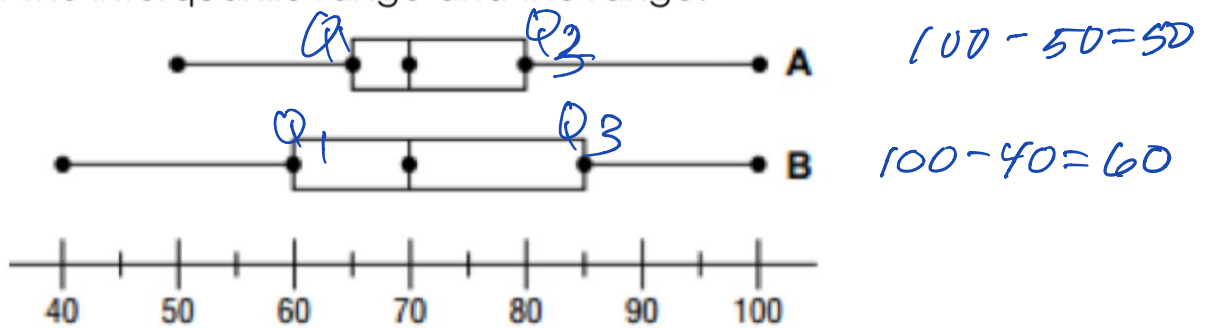
2. John randomly asks customers at two different restaurants how long they waited for a table before they were seated. The double box plot shows the results. Complete the table below to compare their centers and variations. Write an inference you can draw about the two populations.



	Lucy's Steakhouse	Gary's Grill
Interquartile Range	$30 - 10 = 20$	$20 - 10 = 10$

The wait time is greater at Lucy's Steakhouse.

3. Compare box and whisker plots A and B to answer each question. Show your work for the interquartile range and the range.



a) Which data set has a greater **interquartile range**? B

$$\left. \begin{array}{l} \text{Plot A} \\ 80 - 65 = 15 \end{array} \right\} \left. \begin{array}{l} \text{Plot B} \\ 95 - 60 = 25 \end{array} \right.$$

b) Which data set has a smaller **range**? A