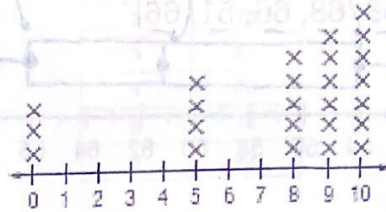


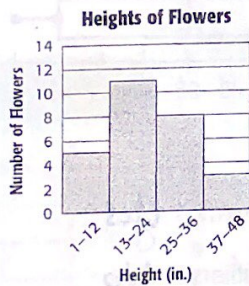
1. a. How many students have 2 siblings? 4 siblings students
 b. What is the mode of the data? Highest point is 1 sibling
 c. What is the median number of siblings students have? 1, 1, 1, 1, 1, 1, 1, 1, 2, 2, 2, 2, 3, 3, 3, 3, 3, 4, 4
 d. Write a sentence describing the data. 2 split into 10 each side.

More students have 1 sibling than any other number. Generally, the higher the number of siblings, the fewer the students.

Number of Hours Playing Sports per Week



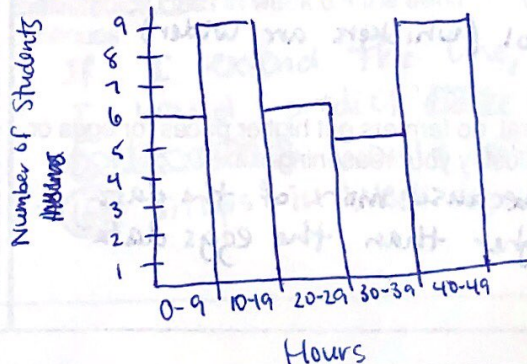
2. a. Mean = $\frac{0 \cdot 10 + 0 + 5 + 5 + 5 + 5 + 8 + 8 + 8 + 8 + 9 + 9 + 9 + 9 + 10 + 10 + 10 + 10 + 10}{25} = \frac{184}{25} = 7.36$
 b. Median = 0, 0, 0, 5, 5, 5, 5, 8, 8, 8, 8, 8, 9, 9, 9, 9, 9, 10, 10, 10, 10, 10
 c. Mode = Highest point = 10
 d. Describe the data. Most of the students ~~practice~~ play sports 8, 9, or 10 hours per week. Only 3 people don't play any sports.



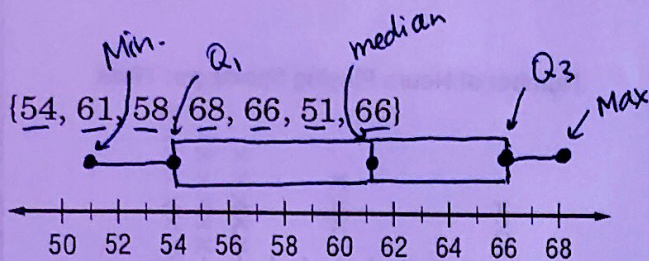
3. a. Which interval represents the least number of flowers? 37-48 inches
 b. Which interval has 5 flowers? 1-12 inches
 c. How many flowers are 24 inches tall or shorter? $5 + 11 = 16$ flowers
 d. How many flowers are at least 37 inches tall? 3 flowers are 37-48 inches tall.

Hours Volunteered by Students		
Hours	Tally	Frequency
0-9		6
10-19		9
20-29		6
30-39		5
40-49		9

4. Create a histogram using the above data.



5. Make a box and whisker plot for the data.



Find median: Put in order first.

51, (54), 58, (60), (66), 68

Find quartiles.

Q1

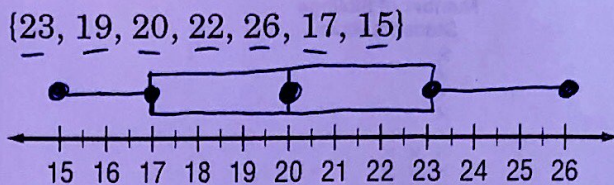
median

Q3

Minimum = 51

Maximum = 68

6. Make a box and whisker plot for the data.



Find median: Put in order first.

15, (17), 19, (20), 22, (23), 26

Find quartiles.

Q1

median

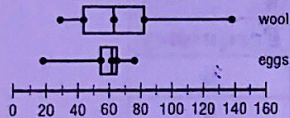
Q3

Minimum = 15

Maximum = 26

PRODUCTS Use the box plot that shows the average prices in cents per pound farmers received for eggs and wool.

Prices per pound received (¢)



7. a. How do the median egg prices and the median wool prices compare?

The median prices are about the same.

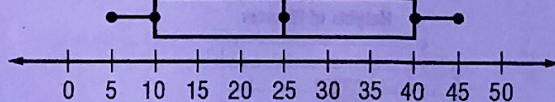
b. Do eggs or wool prices show the greatest spread of data?

Wool (whiskers are wider)

c. In general, do farmers get higher prices for eggs or wool? Justify your reasoning.

Wool, because more of the data is higher than the eggs data.

Text Messages Sent



8. a. Is the data symmetric? Yes

b. Are there any outliers? No

c. Are there any gaps? Don't know/can't tell

d. What is the mode? Don't know/can't tell

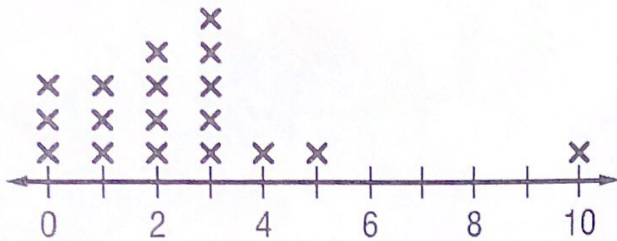
e. Should we use mean or median to describe the data? Why?

Mean because data is symmetric and no outliers

Describe the data.

The # of text messages range from 5 to 45. Half of the # of messages were less than 25 and half were more than 25. The data is pretty evenly spread out.

Number of Television Sets



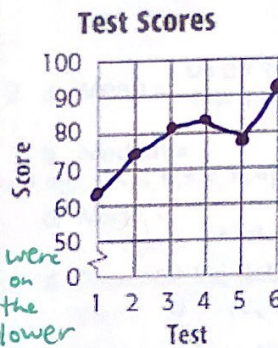
9. a. Is the data symmetric? **No**

b. Are there any outliers? **Yes → 10**

c. Are there any gaps? **Yes → 6, 7, 8, 9**
 c. Describe the data. Half of the TV sets were less than 2, and half was more than 2. The data was not evenly spread -- more numbers were on the lower end.
 d. What is the mode? **3**
 e. Should we use mean or median to describe the data? Why? **Median, because not symmetric and there is an outlier**

10. Make a line graph of the data. Then describe the change in the test scores from Test 1 to Test 6.

Test Scores	
Test	Score
1	62
2	75
3	81
4	83
5	78
6	92

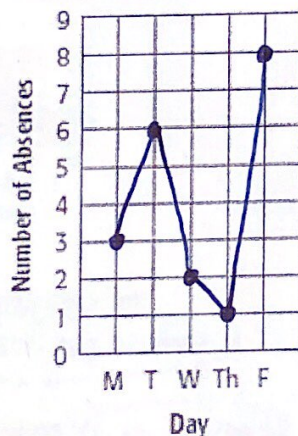


In general, test scores increased.

11. Make a line graph of the data. Then describe the change in homeroom absences throughout the week.

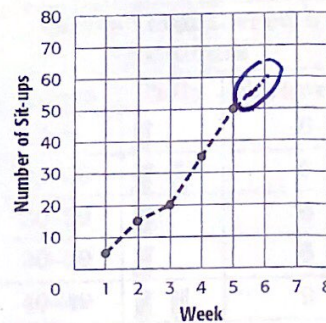
Homeroom Absences	
Day	Absences
Monday	3
Tuesday	6
Wednesday	2
Thursday	1
Friday	8

Homeroom Absences



Absences decreased in the middle of the week, but there was a big jump in absences on Friday.

Cara's Sit-ups



12. Predict how many ~~students will be~~ **students will be** in the aerobics class in week 6 if the trend continues.

sit-ups Cara will do
If I extend the line, I would predict ~~that~~ Cara would do about ~~60~~ **60 situps in Week 6.**