1. Determine whether the following are *quantitative* or *qualitative* variables:

a. Number of siblings 1 quantitative

b. Height 5.6 quantitative

c. Eye color Blue qualitative

d. Zip code 04950 quantitative

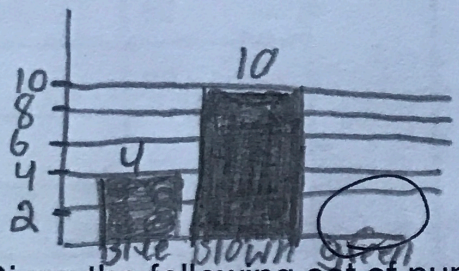
e. Age 14 quantitative

f. Shoe size $10\frac{1}{2}$ quantitative

g. Population

h. Dog breeds

2. Draw a bar graph of a class that has 10 people with brown eyes, 4 people with blue eyes, and 2 people with green eyes.



3. Given the following set of numbers:

1, 1, 4, 6, 8, 8, 8, 10, 13, 13, 16, 17, 19, 19, 21

What is the median? 10

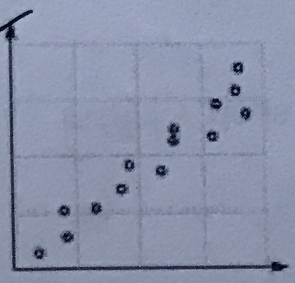
What is the range? 20

What is the mode? 8

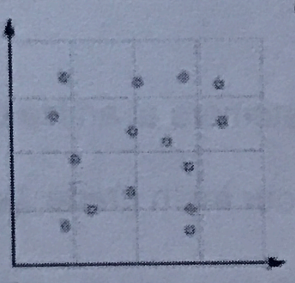
What is the mean? 11

4. Match the scatter plot to the appropriate description:

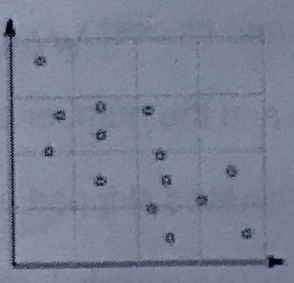
A.



B.

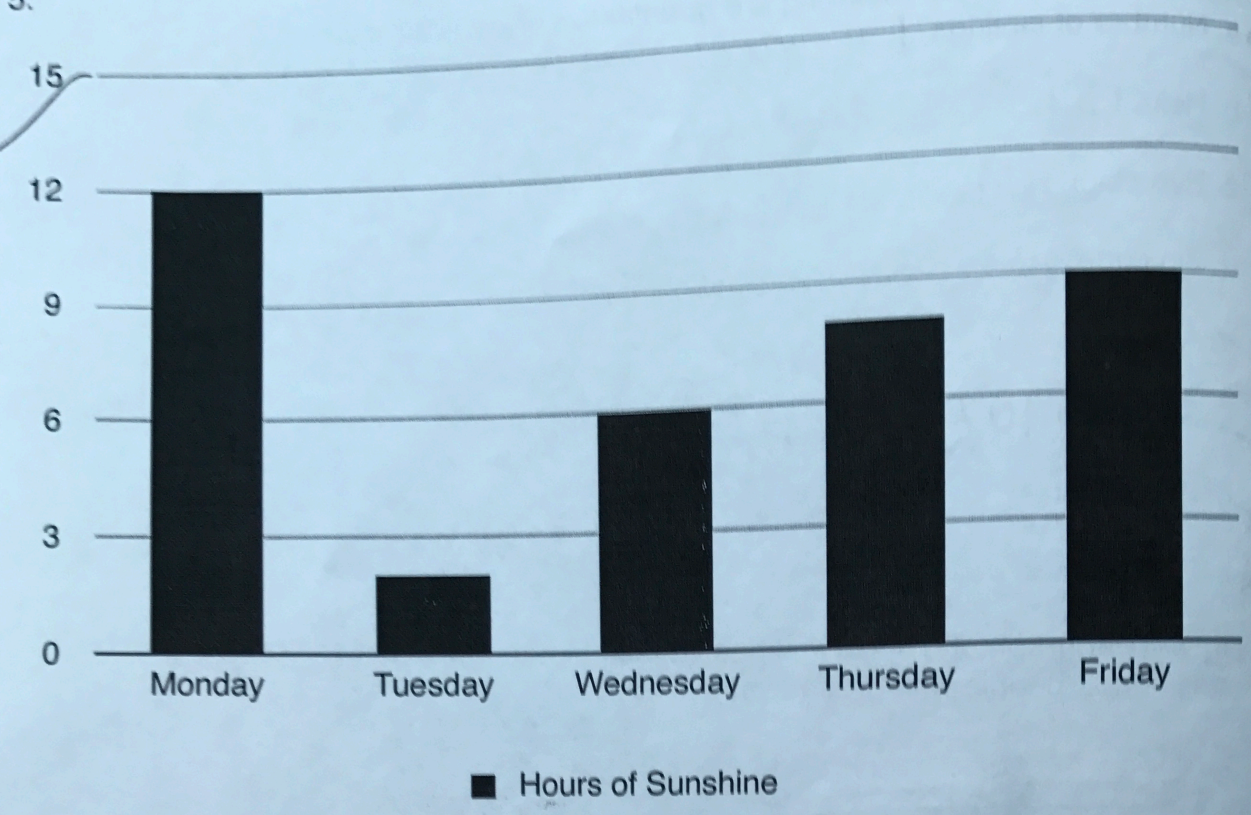


C.



No Correlation: B Weak Negative Correlation: C Strong Positive Correlation: A

5.



a. Which day had 8 hours of sunshine? Thursday

b. How many hours of sunshine were there on Monday? 12

c. On what day do you think it rained? tuesday

Explain your choice for part (c) : there was only 2 Hours of light

6. Decide whether the following would have a positive correlation, negative correlation, or no correlation. If they have a positive or negative correlation, do you think it would be strong or weak?

A. The age of a car and its cost weak

B. The temperature and the number of customers at an ice cream shop Strong

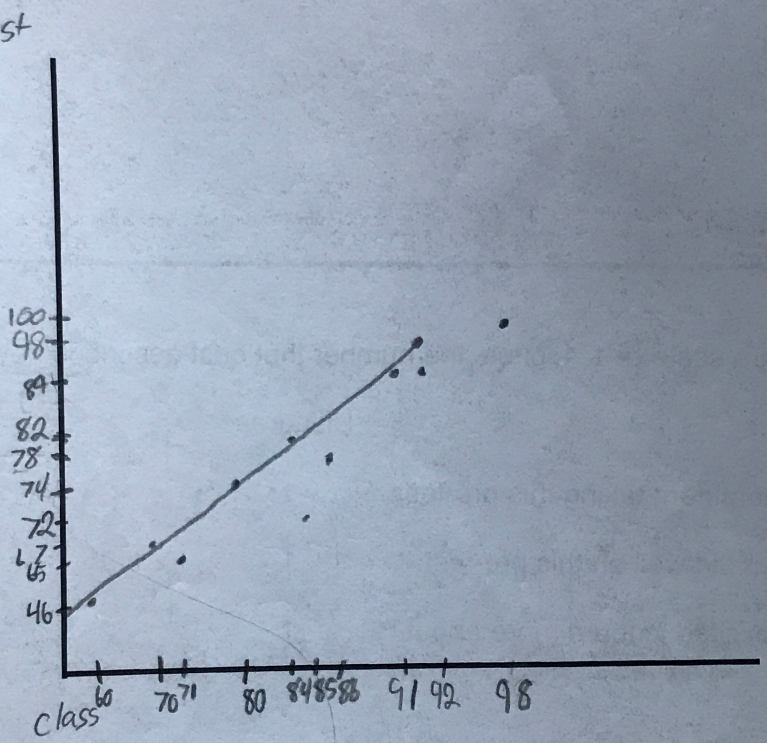
C. Number of math classes skipped and your math grade weak

D. Height and monthly paycheck weak

7. Create a stem and leaf plot of the following numbers: 6, 8, 13, 15, 17, 19, 21, 25, 25, 36, 38, 41, 45, 52

8. Create a scatterplot comparing students' grade in the class and their score on their last test. Label axes appropriately.

Test Grade	Class Grade
74	80
100	98
65	71
89	92
46	60
98	92
78	86
82	84
67	70
89	91
72	85



9. What do you notice about the relationship between students' test grade and their class grade? The Higher the test grade the Higher the class grade

10. Draw the line of best fit through the data points

11. Construct a box plot from the following information:

Minimum: 3
Quartile 1: 5
Median: 6
Quartile 3: 9
Maximum: 11

12. On a scale of 1-4, circle the number that best describes how you felt taking this test.

	Disagree			Agree
I felt confident taking this pre-test.	1	(2)	3	4
I think I did well on this pre-test.	1	(2)	3	4
I am excited to learn more about statistics.	1	2	3	(4)