

Multiple Choice

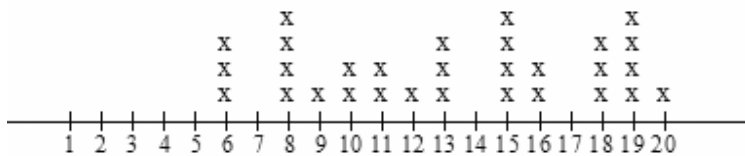
Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Using the frequency table below, find how many students received a score of 80 or better on a mathematics test.

Score Interval	Frequency
50 - 59	7
60 - 69	6
70 - 79	6
80 - 89	3
90 - 100	4

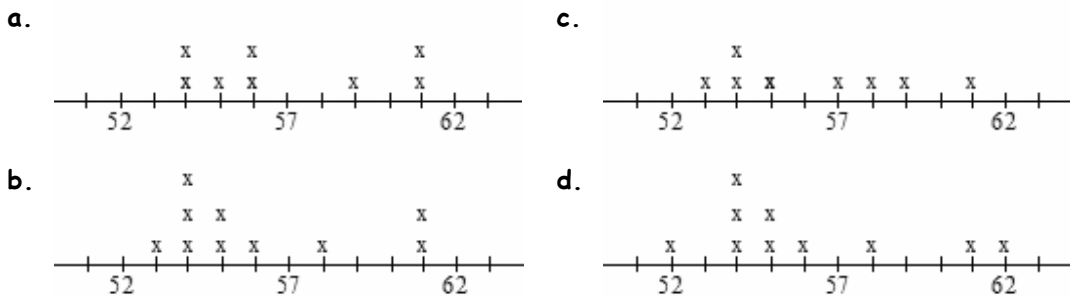
- a. 7 b. 3 c. 9 d. 13

- _____ 2. The line plot below represents the number of letters written to overseas pen pals by the students at Waverly Middle School. Each "x" represents 10 students. How many students wrote 13 or more letters?



- a. 160 b. 30 c. 170 d. 17

- _____ 3. The numbers below represent the scores on a science test. Graph the data in a line plot.
58, 55, 54, 61, 56, 54, 61, 55, 53, 54



- _____ 4. The stem-and-leaf plot shows the number of fish that were caught by several ships in a fishing fleet. How many ships caught 37 fish or fewer?

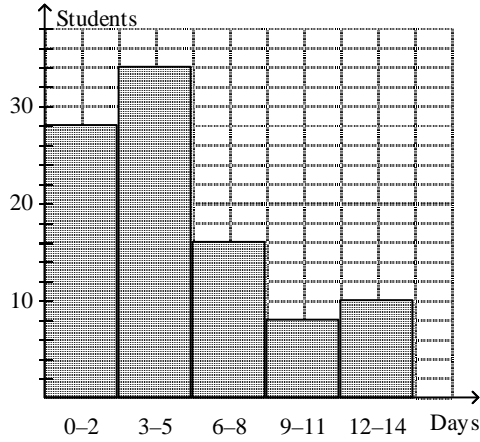
Stem	Leaves
3	0 3 3 5 6
4	0 2 4 5 8 9 9
5	0 1 2 4

key: 2 | 4 means 24

- a. 4 b. 5 c. 6 d. 11

5. The histogram shows the number of sick days students took during the school year. How many more students were out sick for 0 to 2 days than 10 to 12 days?

How Many Sick Days Did Students Take During the School Year?



- a. 24 b. 16 c. 8 d. 20

6. The stem-and-leaf plot shows the number of cans of food collected by various students for a food drive. How many students collected more than 43 cans?

Stem	Leaves	key: 3 5 means 35
3	0 1 1 1 4 4	
	4	
4	0 1 3 4 4 5	
5	0 3 3 6 8	

- a. 5 b. 9 c. 7 d. 8

7. The stem-and-leaf plot above shows the number of kilometers walked by participants in a benefit walk.

- a. How many people participated in the walk?
b. How many of the walkers traveled more than 14 kilometers?

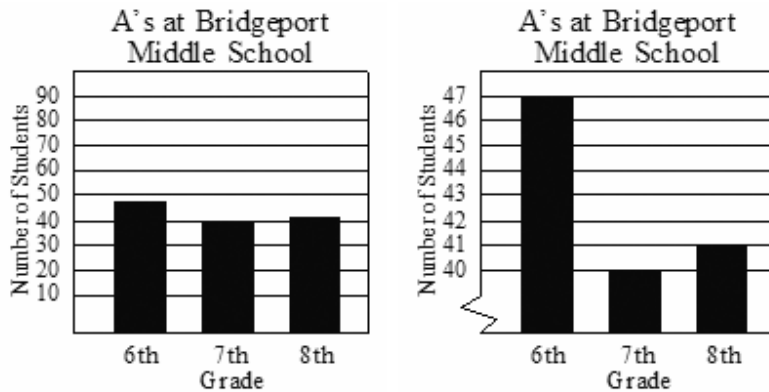
12 | 3 means 12.3

Number of Kilometers Walked by Participants

12	0 3 6 7 9 9
13	0 1 4 5 5
14	0 0 2 3 3 8 8 9
15	0 2 2 2 2 3 5 5 7
16	0 5 5 9 9
17	0 4 5

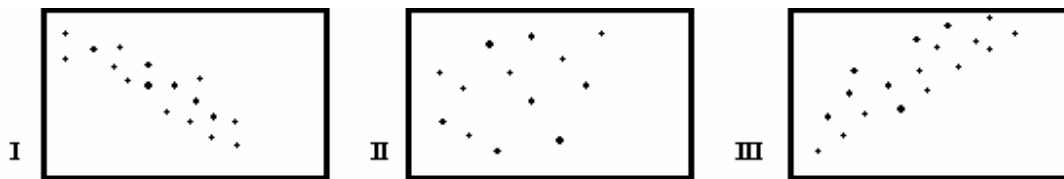
- a. 147 people; 23 walkers c. 36 people; 23 walkers
b. 36 people; 25 walkers d. 147 people; 33 walkers

8. The graphs below show the number of students receiving A's in each grade at Bridgeport Middle School. Which statement is true?



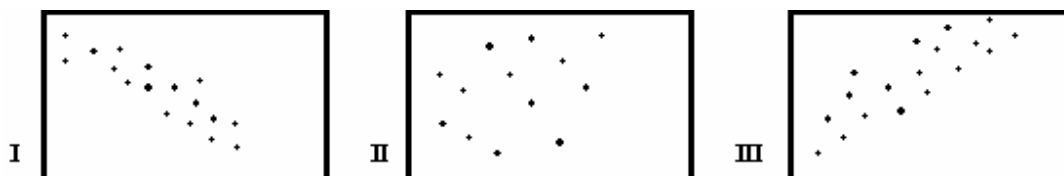
- The scale on the first graph does not distort the lengths of the bars.
- The second graph shows greater changes in the number of A's than the first graph.
- The two graphs use completely different data.
- The scale of the first graph is misleading.

9. Marcia drew a scatter plot comparing the number of people who bought tickets to the school play and the amount of money raised by the event. She graphed the ordered pairs (number of tickets, money raised) for each date of the play. Which of the three scatter plots below most likely represents the data?



- I
- II
- III
- none of these

10. Fernando surveyed a group of people to find their shoe size and the number of children in their family. He graphed the ordered pairs (shoe size, number of children) for each person. Which of the scatter plots most likely represents his graph?



- I
- II
- III
- none of these

11. The data below give the number of books checked out of the school library by 15 students during one month. Make a frequency table of the data.

0, 3, 2, 3, 2, 1, 1, 0, 1, 2, 5, 1, 2, 3, 1

a.

Number of books	0	1	2	3	4	5
Tally						
Frequency	2	5	3	3	1	1

b.

Number of books	0	1	2	3	4	5
Tally						
Frequency	2	4	3	3	0	1

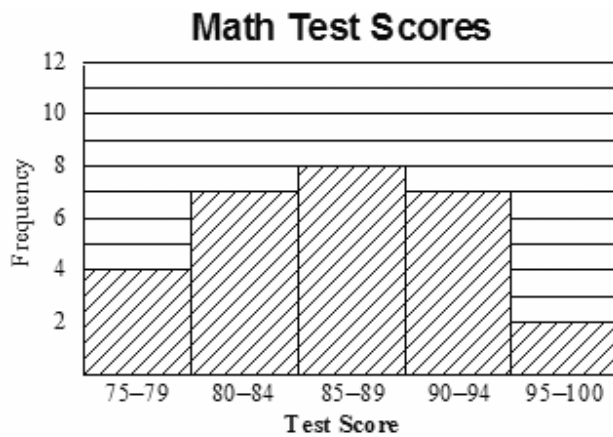
c.

Number of books	0	1	2	3	4	5
Tally						
Frequency	3	4	4	3	0	1

d.

Number of books	0	1	2	3	4	5
Tally						
Frequency	2	5	4	3	0	1

12. The test scores for the 28 students in a math class are represented in the histogram. How many students had scores between 85 and 89?

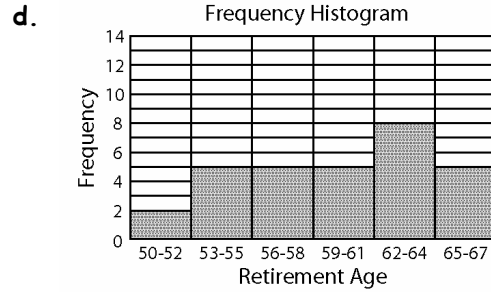
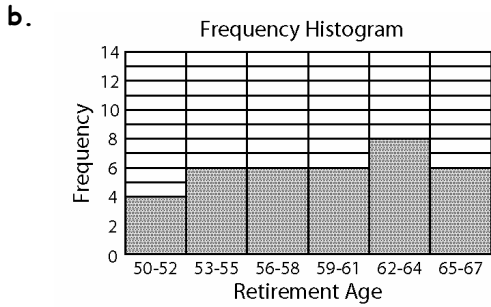
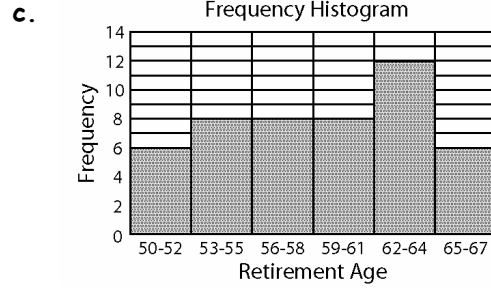
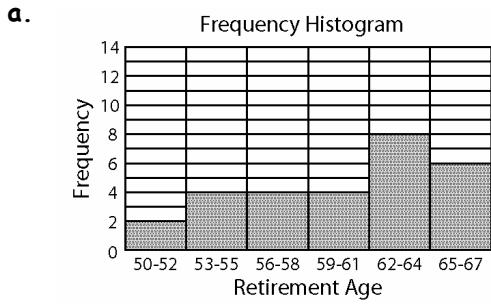


- a. 15 b. 8 c. 9 d. 7

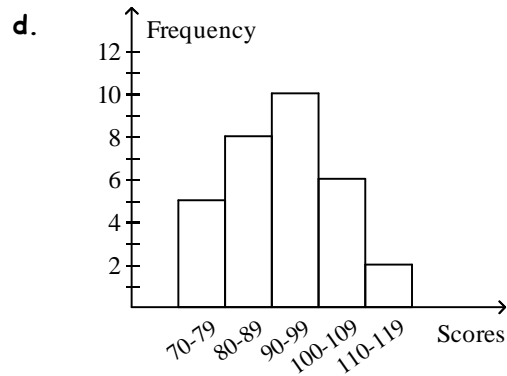
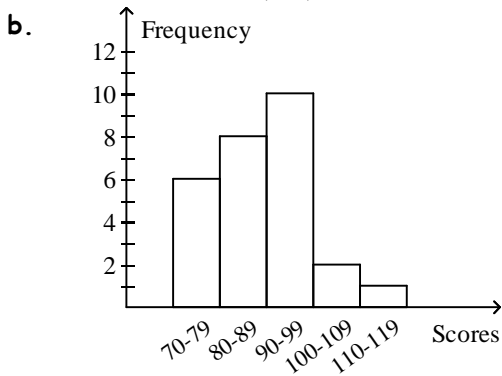
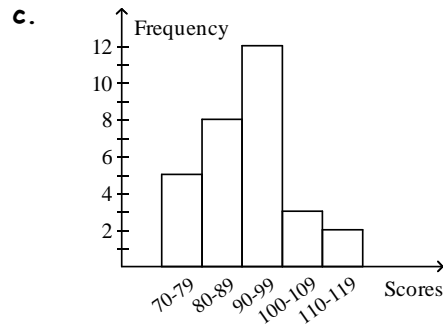
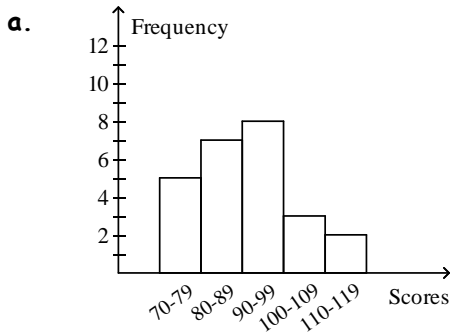
13. Display the data in a histogram.

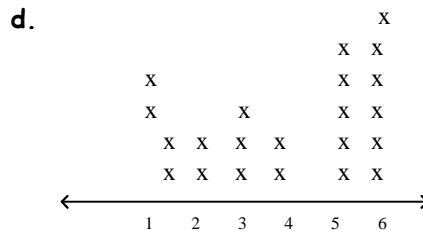
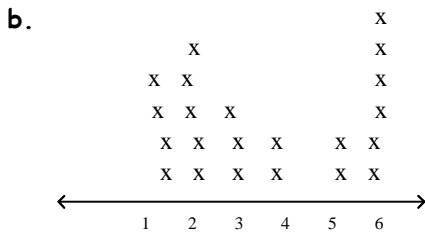
Retirement Ages of Police Detectives

Age	Tally	Frequency
50-52		2
53-55		5
56-58		5
59-61		5
62-64		8
65-67		5



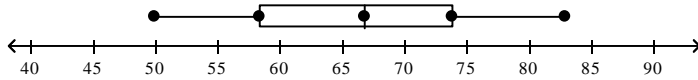
14. The golf scores for the 25 members of the Belmont Golf Team were 111, 96, 105, 72, 88, 93, 87, 79, 104, 112, 89, 103, 76, 94, 87, 71, 98, 75, 87, 96, 99, 81, 83, 95, 98. Make a histogram using ten-point intervals that shows the frequency distribution of the scores.





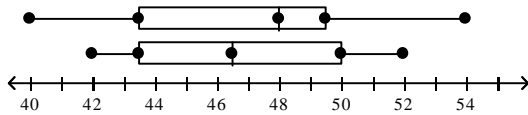
18. Find the range of the data.
 Scores: 90, 89, 87, 79, 89, 84, 80, 85, 85, 79
- a. 11 b. 7 c. 12 d. 15

19. Describe the data in the box-and-whisker plot.



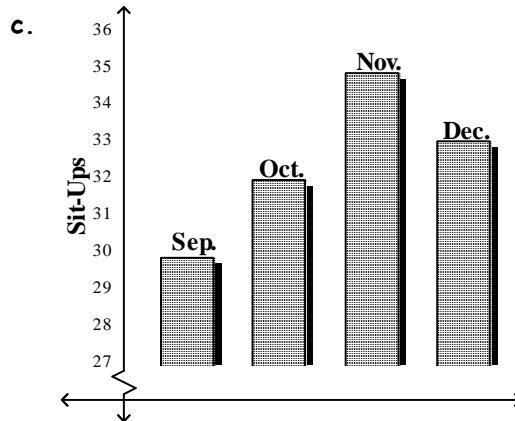
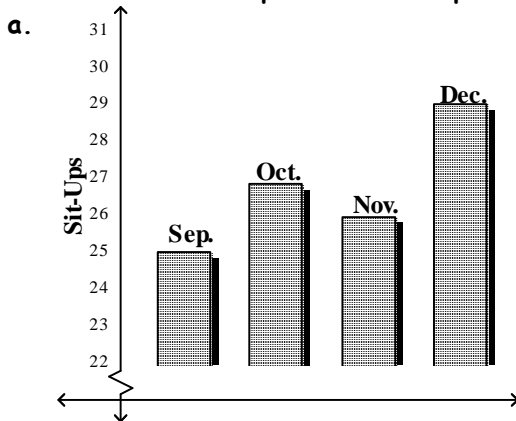
- a. The lowest value is 58.5 and the highest value is 74. The median is 67. At least half of the data are within 8.5 points of the median.
- b. The values range from 50 to 83. At least half of the data are within 7 points of the median, 67.
- c. The lowest value is 50 and the highest value is 83. The median is 67. At most half of the data are within 7 points of the median.
- d. The values range from 50 to 83. At least half of the data are within 8.5 points of the median, 67.

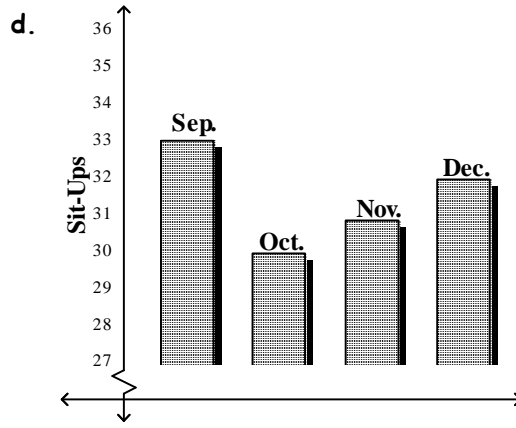
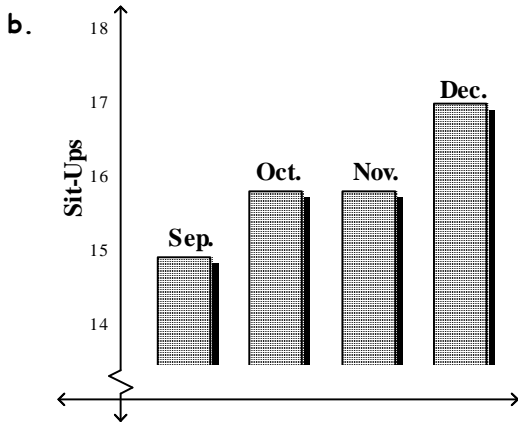
20. Use the two box-and-whisker plots to determine which statement is true.



- a. They have the same median.
- b. They have the same range.
- c. The upper quartiles are equal.
- d. The lower quartiles are equal.

21. Which graph suggests that the number of sit-ups Mark did in November was more than double the number of sit-ups he did in September?





22. Use the data in the table. Make a graph that suggests a rapid increase in population from 1994 to 2004.

Year	Population
1994	400
1996	404
1998	410
2000	412
2002	415
2004	420

