Unit 6 Review

6th Grade Math

1. Which question below is a statistical question?

a. What is my brother's favorite type of car to drive?
b. Does my father or mother like a Mazda more than a Lexus?
c. What type of car do the seniors in the high school prefer to drive?
d. If I wanted to buy a car with the lowest insurance rate which one would it be?

2. What is the median of the data set shown?

34, 86, 12, 56, 21, 98, 72, 23, 97, 44

12, 21, 23, 34, 44, 56, 72, 86, 97, 98

a. 44
b. 56
c. 50
d. 59.5

3. Which question below shows variability?

a. What is my favorite book to read?
b. What books do students in my school read?
c. Do students in my school like to read books?
d. What is the common book that you find in a first grade classroom?

4. The test scores for a class are shown. What is the average test score?

78, 80, 92, 92, 81, 100, 88, 98, 91, 90

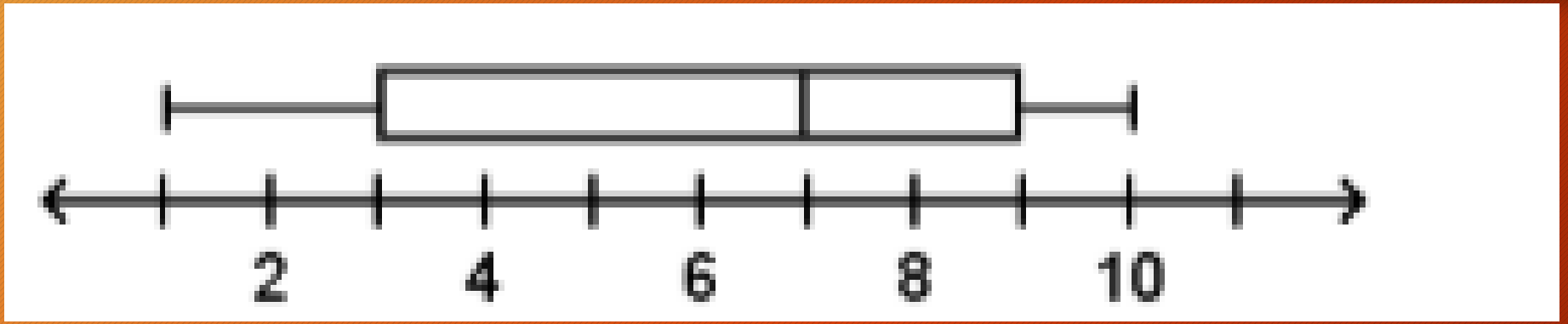
890 ÷ 10 =

a. 81
b. 89
c. 100
d. 890

5. Which question below anticipates variability?

a. How tall are you?
b. How tall is the tallest person in your class?
c. How tall are the students on the basketball team?
d. How tall is the flagpole in front of your school?

6. What percentage of the data in the box plot below is represented by the range of 1 to 7?



a. 25%
b. 50%
c. 60%
d. 75%

7. Mr. Kell earns a commission on his daily sales. Below are the commissions he earned on sales for a 9-day period.

$85, $92, $86, $75, $88, $142, $93, $82, $76

75, 76, 82, 85, 86, 88, 92, 93, 142

1. What is the mean of the set of data? 91
2. What is the median of the set of data? 86
3. What is the mode of the set of data? No mode
4. What is the range of the set of data? 67
5. Is there an outlier in the set of data? 142

8. Spencer created this table for the data in the graph. What mistake did he make?

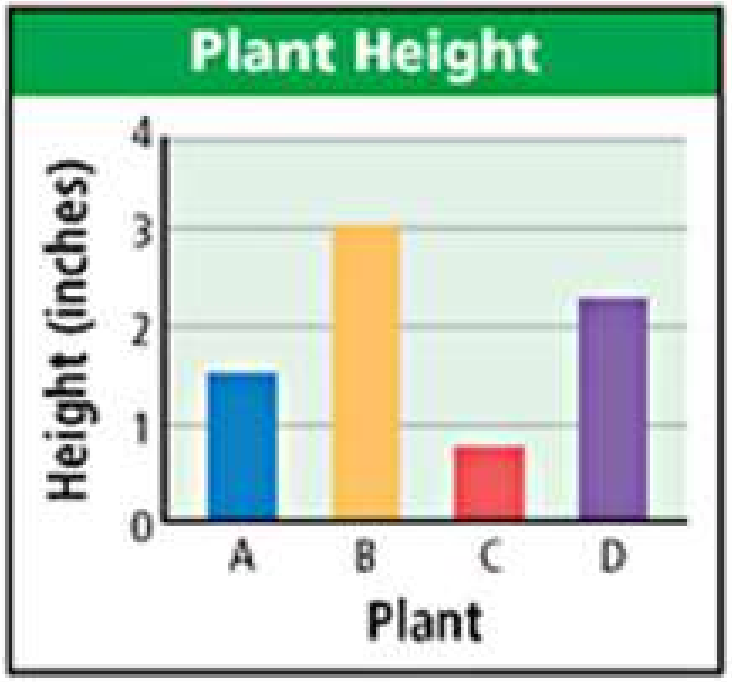
a. He confused the data for plants A and C

b. He misread the data for plant C

c. He rounded the data to the nearest ¼ inch

d. He misread the data for plant D

Plant	A	B	C	D
Height (in.)	$1\frac{1}{2}$	3	1	$2\frac{1}{4}$



9. Each time that she dives, Anjelicca receives a score between 1 and 10. Below is a list of her scores. What is the frequency of Anjelicca scoring over 5?

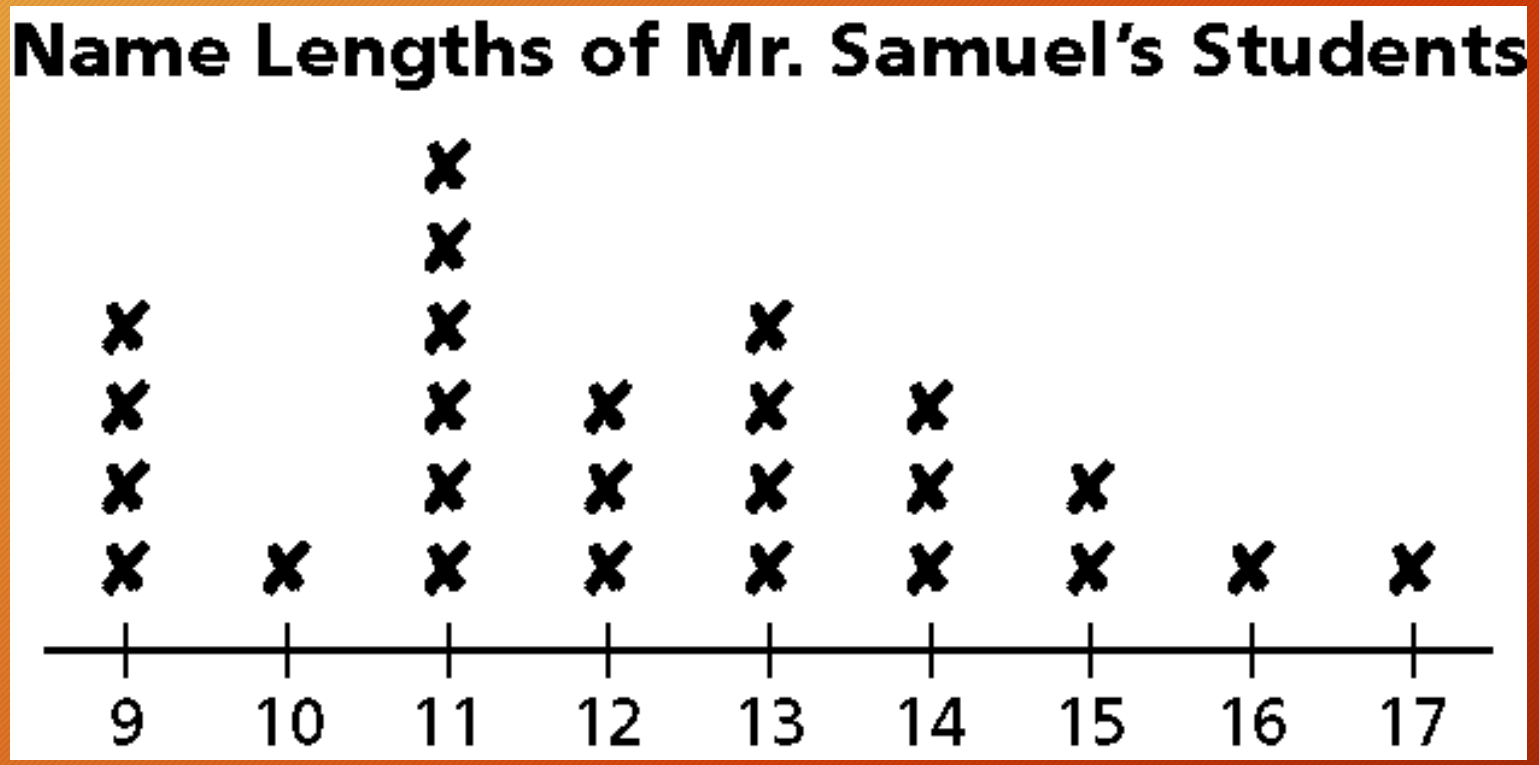
3, 4, 9, 7, 4, 7,

a. 1 b. 3 c. 5 d.7

10. Madinah wants to display data showing the following age ranges: 6 - 10, 11 - 15, and 16 - 21. What type of graph should she use?

a. Bar graph
b. Line graph
c. Histogram
d. Line plot

11. How many students' names have more than 12 letters?



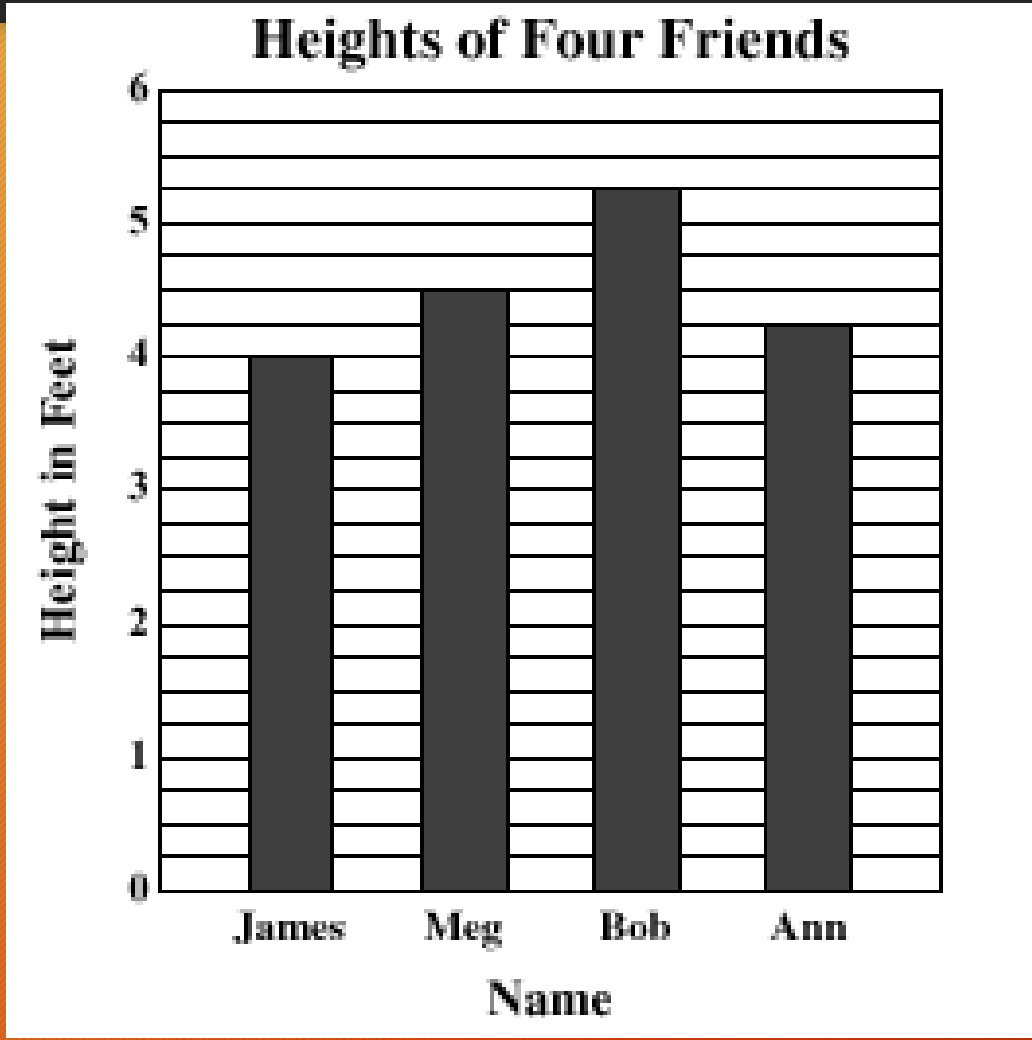
a. They all have more than 12 letters.

b. 5

c. 14

d. 11

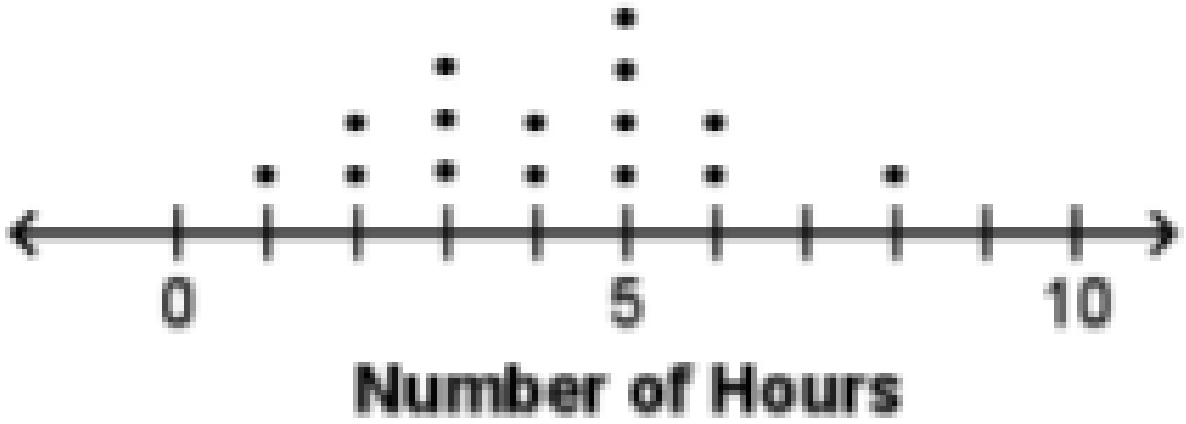
12. Based on the graph, which statement is false?



a. James is 4 feet tall
b. Bob is 5 feet 3 inches tall.
c. Meg is taller than Ann
d. Ann is 4 feet tall

13.

Colleen is training over the summer for a triathlon. The amount of time that she spends training daily is displayed on the dot plot shown. How many days did Colleen spend training?



(A) 7

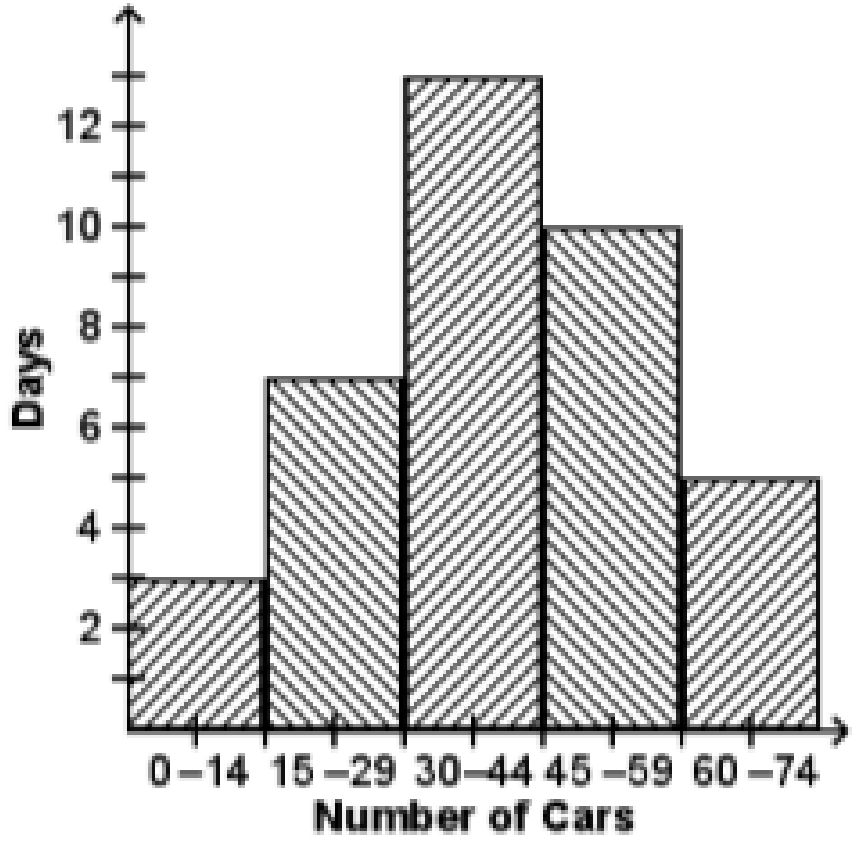
(B) 8

(C) 15

(D) The number of days cannot be determined.

14.

A traffic engineer is collecting counts of how many cars are on one street during a specific time each day. The results are shown in the histogram. How many days did the traffic engineer collect data?



(A) 5

(B) 38

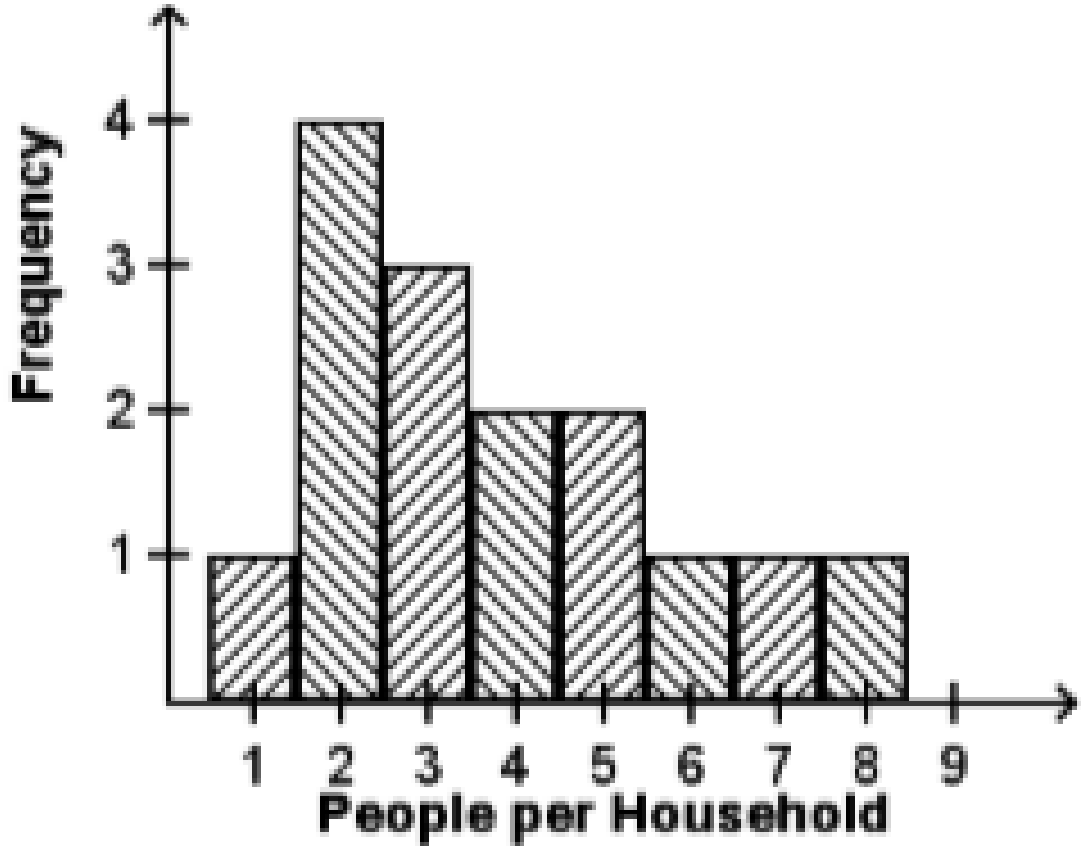
(C) 74

(D) The number of days cannot be determined.

How many days were there 45 or more cars on the street? 15

15.

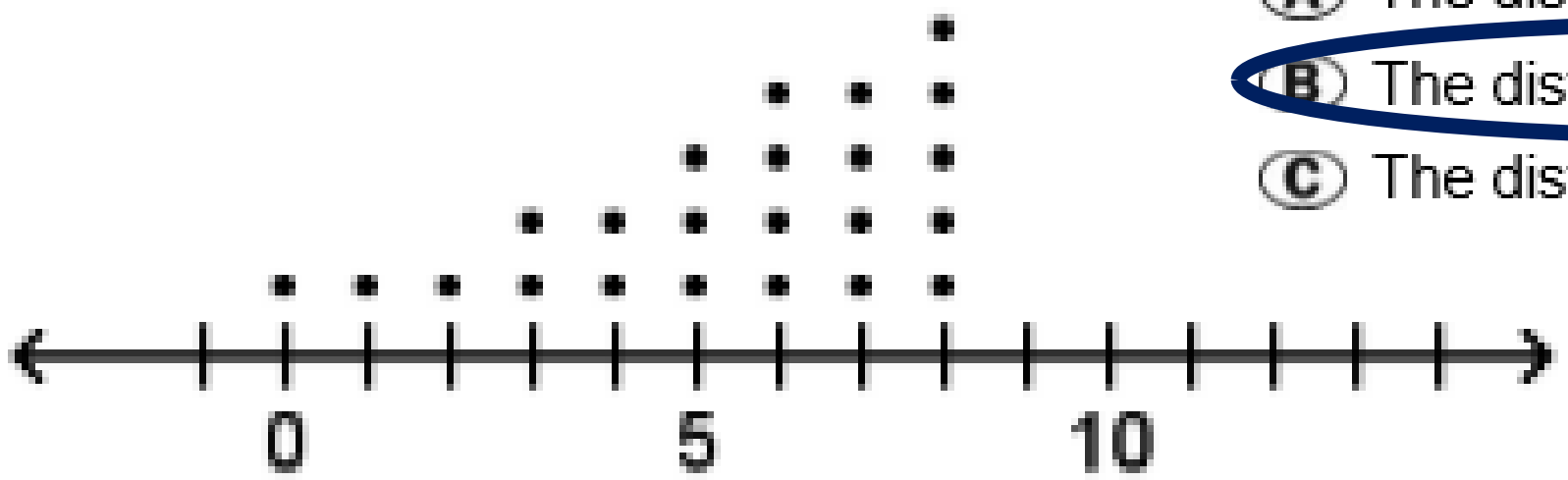
The number of people per household for a street with 15 houses is shown. What statement best describes the shape of the distribution of the data set?



(A) Skewed right
(B) Skewed left
(C) Symmetric
(D) Has two peaks

16.

Which of the following statements accurately describe the data displayed in the dot plot shown?

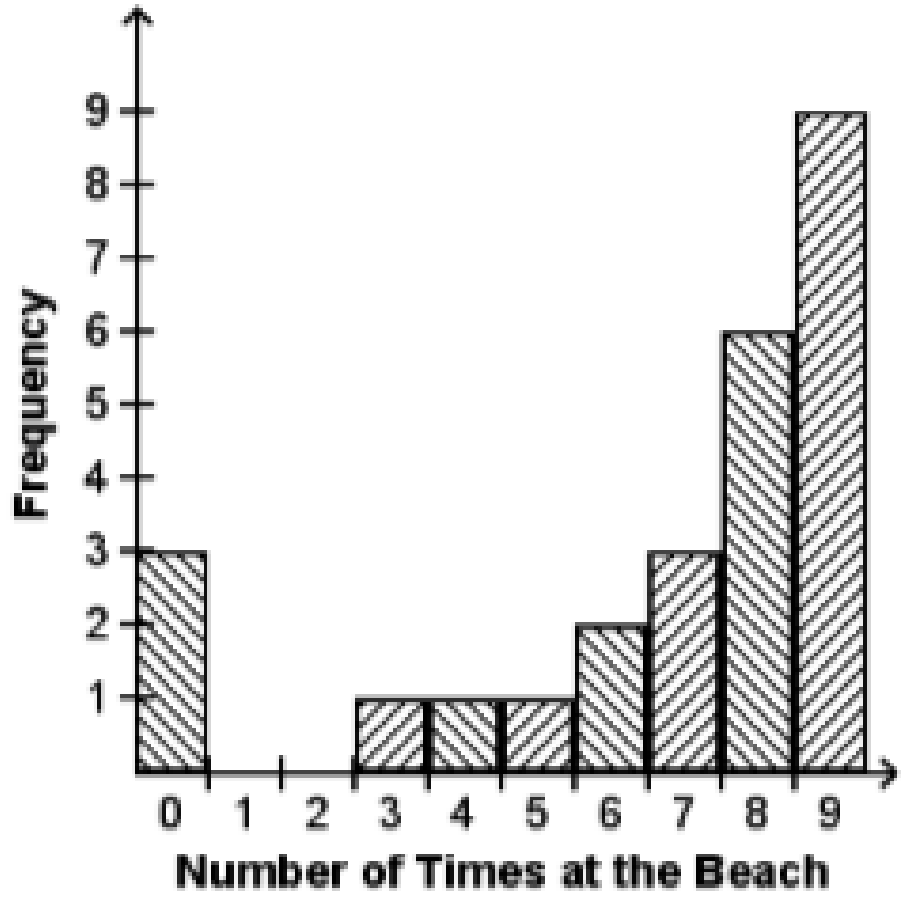


(A) The distribution is right skewed.

(B) The distribution is left skewed.

(C) The distribution is symmetric.

17. Fred asked each of his classmates how many times they went to the beach over summer break. He displayed the data using the histogram shown. Which statement best describes the pattern of the distribution?



(A) Skewed left with one deviation from the overall pattern at the value 0

(B) Skewed left with no deviations from the overall pattern

(C) Skewed right with one deviation from the overall pattern at the value 0

(D) Skewed right with no deviations from the overall pattern

How many people went to the beach fewer than 6 times? 6

18. Gabrielle collected the heights, in inches, of her coworkers. This data is shown below.

65, 70, 60, 58, 60, 63, 65, 66

Construct a box plot of the data Gabrielle collected.

58, 60, 60, 63, 65, 65, 66, 70