Analyzing Data

Name: _____   **Date:** _____

1. Rachel made a bar graph for a weather project.

Number of Days with Rain or Snow in River Town
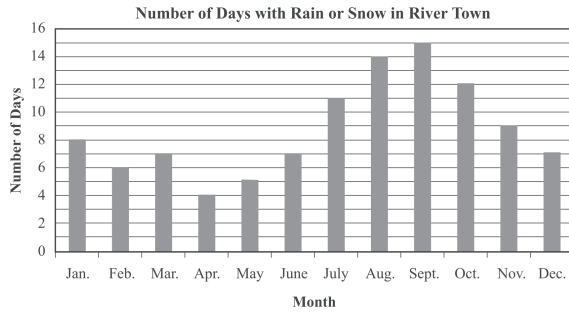
How many months had *less* than 9 days of rain or snow?

A. 4   B. 5   C. 7   D. 8

2. The bar graph below shows the number of pets some students have.

Students and Their Pets
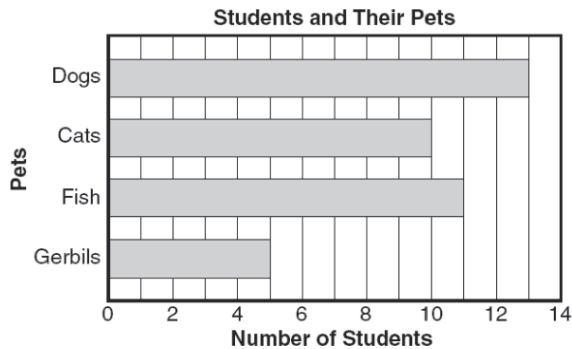
Based on the graph, how many more students have dogs than gerbils?

A. 5   B. 8   C. 9   D. 13

3. The graph below shows the amount of time Leon spent reading each day last week.

Leon's Reading Chart
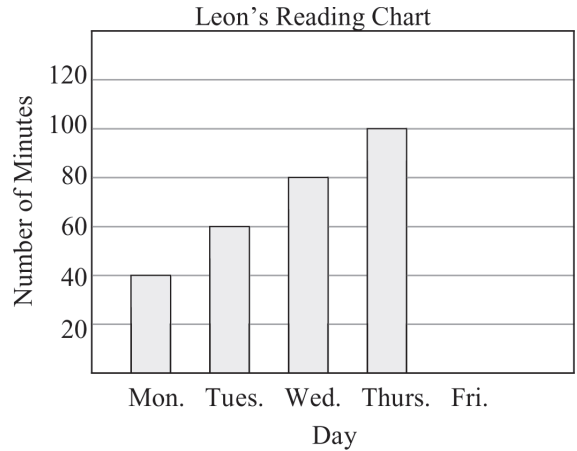
If the trend shown on the graph continues, which of the following is most reasonable prediction of the amount of time Leon will spend reading on Friday?

A. 60 minutes   B. 80 minutes

C. 100 minutes   D. 120 minutes

4. The box-and-whisker plot below shows the heights, in inches, of the students in a 7th grade class.
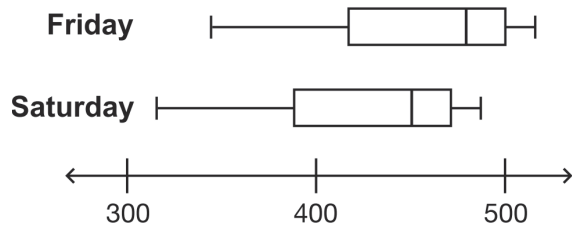
Heights of 7th Grade Students
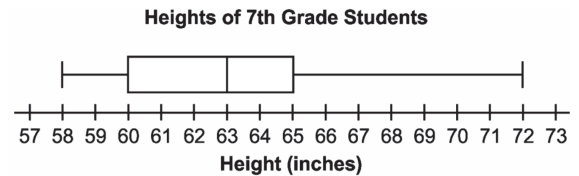
What percentage of the heights of the students is between 60 and 65 inches?

A. 25%   B. 50%   C. 62.5%   D. 75%

5. A movie theater kept track of the attendance on Fridays and Saturdays. The results are shown in the box plots below.

Movie Theatre Attendance

Which conclusion can be drawn from the box plots?

A. The attendance on Friday and the attendance on Saturday have the same median and interquartile range.

B. The attendance on Friday has a greater median and a greater interquartile range than attendance on Saturday.

C. The attendance on Friday has a greater interquartile range than attendance on Saturday, but both data sets have the same median.

D. The attendance on Friday has a greater median than attendance on Saturday, but both data sets have the same interquartile range.

6. A community center offers classes for students.

- The range of the number of students in each class is 13.
- The median number of students in each class is 9.

Which of the following box-and-whisker plots could represent the numbers of students in the classes?

A.

Numbers of Students in Classes

B.

Numbers of Students in Classes

C.

Numbers of Students in Classes

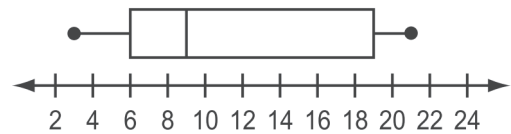D.

Numbers of Students in Classes

Analyzing   Data
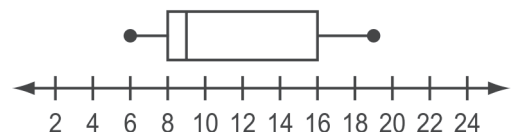
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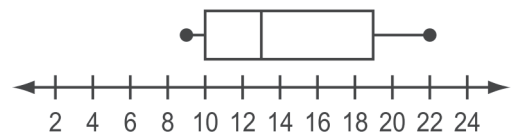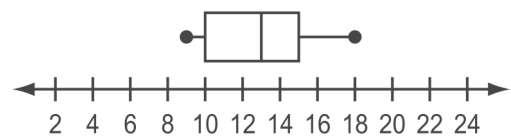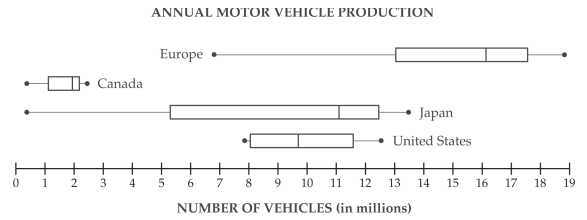
A. **Numbers of Students in Classes**

B. **Numbers of Students in Classes**

C. **Numbers of Students in Classes**

D. **Numbers of Students in Classes**

8. The box-and-whisker plots below show the numbers of motor vehicles produced in four different regions for selected years since 1950.

ANNUAL MOTOR VEHICLE PRODUCTION


NUMBER OF VEHICLES (in millions)

According to the box-and-whisker plots, which of these geographical regions could have a mean annual vehicle production that is greater than their median annual vehicle production?

A. Japan   B. Europe

C. Canada   D. United States

9. Colby graphed some data as shown in this box-and-whisker plot.
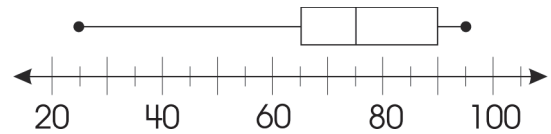
Which statement is true about Colby's data?

A. The range of the data is 25.

B. One-half of the data are below 65.

C. The median of the data is 60.

D. Three-fourths of the data are below 90.

10. The box-and-whisker plots show the distribution of weight among dogs in two different pet stores.

Weight of Dogs

Dogs' Weight (lb)
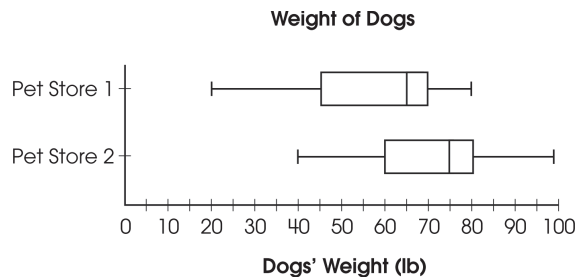
How much greater is the median weight of the dogs in Pet Store 2 than in Pet Store 1?

A. 5   B. 10   C. 15   D. 20

Analyzing Data

11. The table shows the number of turkey and ham sandwiches sold by Derby's Deli for several days in one week.

Sandwiches Sold at Derby's Deli

Day	Turkey	Ham
Monday	7	9
Tuesday	13	11
Wednesday	8	8
Thursday	15	6
Friday	12	16

What is the difference between the median number of turkey sandwiches sold and the median number of ham sandwiches sold?

A. 0 B. 1 C. 2 D. 3

12. The letters listed below are the first letters of the names of the summer camp instructors.

 L, L, A, M, C, C, M, A, T, D, D, L, D, T, C

Which frequency table best represents this data?

A. **First Letter of Names**

Letter	Tally
A	||
C	|||
D	|||
L	|||
M	||
T	||

B. **First Letter of Names**

Letter	Tally
A	||
C	|||
D	||
L	|||
M	||
T	||

C. **First Letter of Names**

Letter	Tally
A		
C		
D		
L		
M		
T		

D. **First Letter of Names**

Letter	Tally
A	||
C	||||
D	⊞|
L		
M	|||
T	⊞

13. On a histogram, if each interval represents 5 years, how many intervals would be needed to represent a group of people ages 21 to 65?

A. 7 B. 9 C. 10 D. 13