

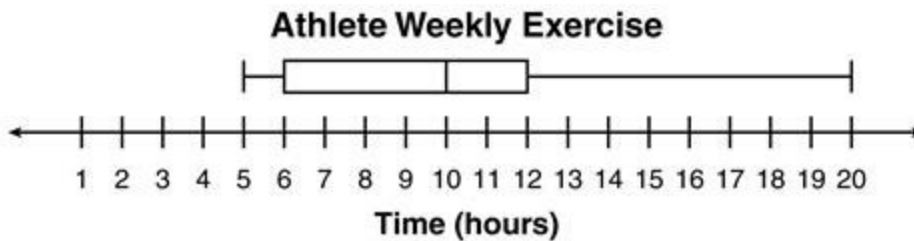
TEST NAME: **Statistics Quiz (2018)**
TEST ID: **2294435**
GRADE: **06 - Sixth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____

Class: _____

Date: _____

1. **Anjali's class conducted surveys of the 6th grade students in her school. Which survey question will most likely result in data with little or no variability?**
 - A. What is your height?
 - B. What is your shoe size?
 - C. How many minutes is your lunch break at school?
 - D. How many minutes does it take you to get to school?
2. **The box-and-whisker plot shown displays the number of hours 20 student athletes spend exercising during the week.**



Which number BEST describes the range of the data in the box-and-whisker plot?

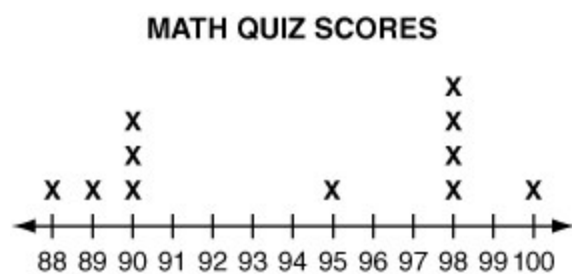
- A. 25
- B. 15
- C. 10
- D. 6

3. Several 6th graders were asked about the number of hours of television they watch each week. Their data is given below.

28, 22, 14, 20, 32, 36, 10, 6, 16, 27, 20, 33

What are the mean and median of the set of data?

- A. mean=21; median=20
 - B. mean=22; median=21
 - C. mean=21; median=22
 - D. mean=22; median=23
4. After each math quiz this grading period, Alexa recorded her score on the line plot below.



KEY
X = 1 Quiz

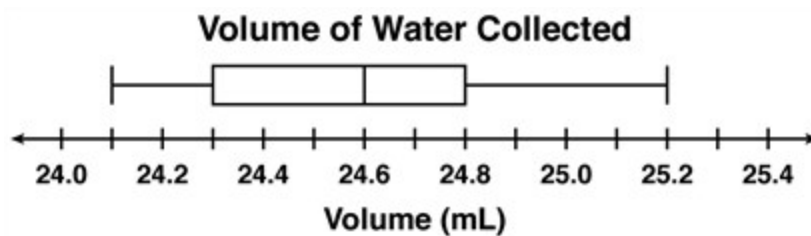
What is the median of the set of data?

- A. 91
- B. 94
- C. 95
- D. 98

5. Which measurement *best* describes the center of the data set shown below?

{1, 1, 4, 5, 6, 7, 8, 9, 26}

- A. mean
B. median
C. mode
D. range
6. Alan collected 7 water samples as part of his science fair project. He used the samples to create the following box plot.



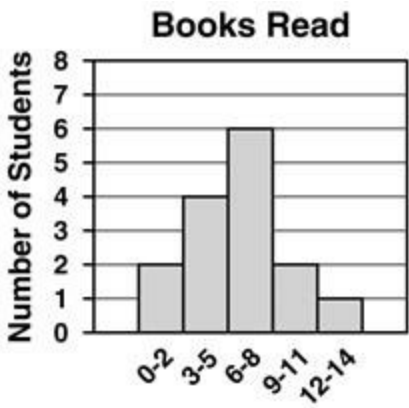
Which single value **BEST** summarizes the data in Alan's box plot?

- A. the median value, 24.6
B. the range of the values, 1.1
C. the number of data points, 7
D. the interquartile range of the values, 0.5
7. The list shows the number of books read by students in Ms. Ryan's class last summer.

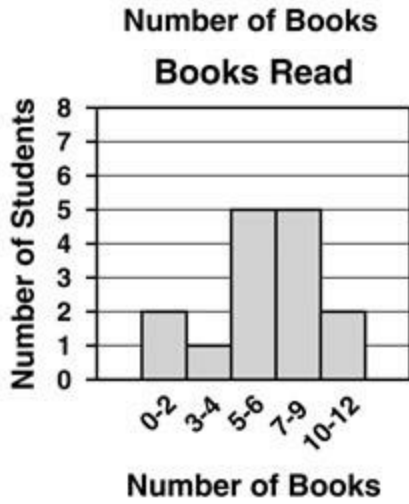
2, 2, 3, 5, 5, 5, 6, 6, 7, 7, 7, 7, 9, 10, 12

Which graph **BEST** represents these data?

A.



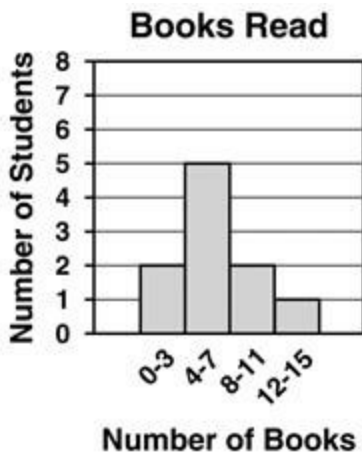
B.



C.



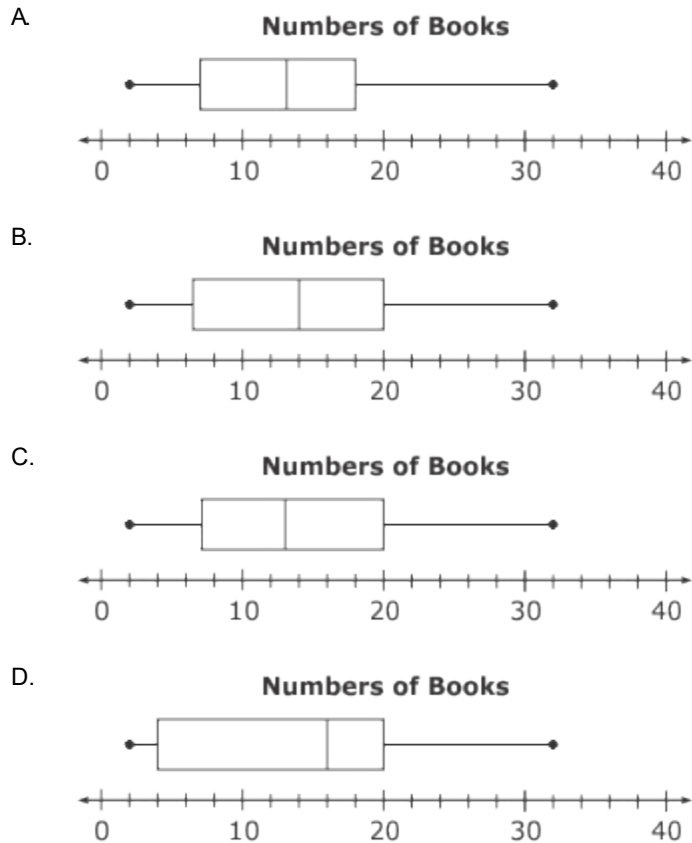
D.



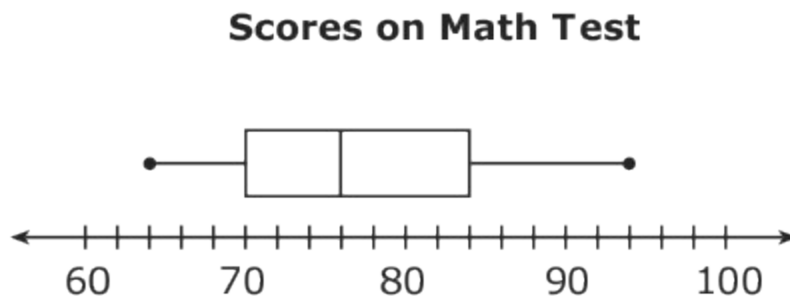
8. The data below represents the numbers of books that twelve students read.

2, 4, 7, 8, 9, 12, 14, 18, 19, 21, 30, 32

Which box plot correctly summarizes the data?



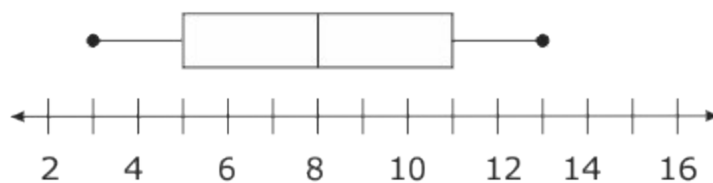
9. The box plot below displays the scores of a math test.



What is the median score of this test?

- A. 70
- B. 76
- C. 84
- D. 94

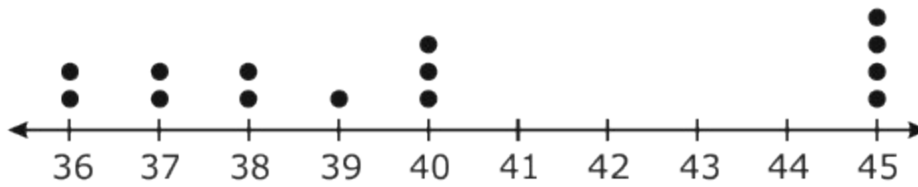
10. What is the range of the set of data used to create this box plot?



- A. 4
- B. 6
- C. 8
- D. 10

11.

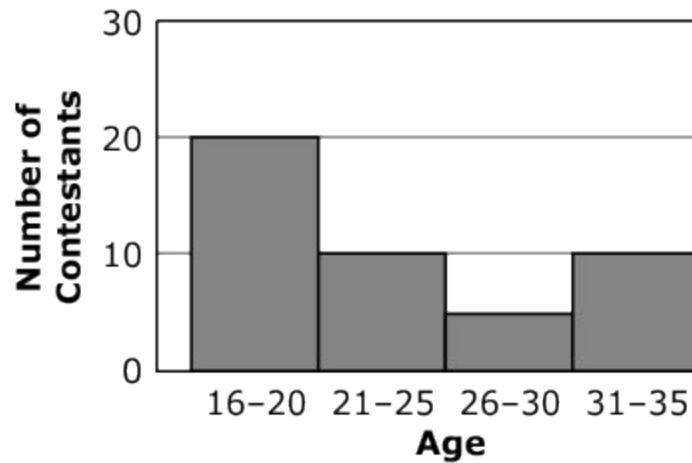
A bus driver counted the number of passengers on his bus each day for two weeks. He created the dot plot below with his data.



How many days were 38 to 40 passengers on the bus?

- A. 3
- B. 4
- C. 6

12. A town recently held a talent show competition. The histogram below shows the number of contestants that performed and their age group.



Which set of data matches the histogram above?

A.

Age	Number of Contestants
16-20	20
21-25	10
26-30	5
31-35	10

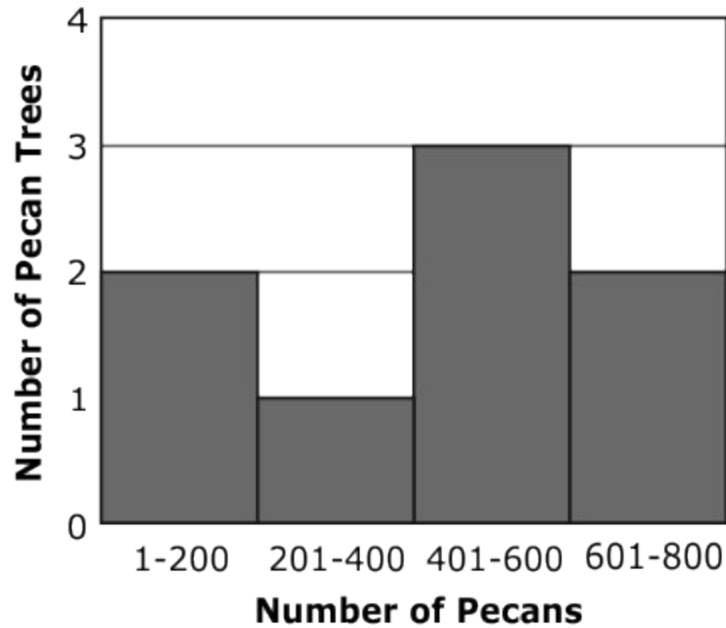
B.

Age	Number of Contestants
0-20	20
21-25	10
26-30	5
31-35	10

C.

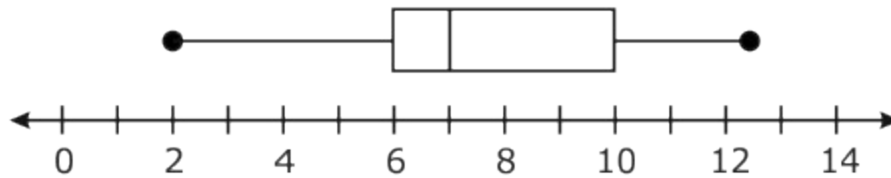
Age	Number of Contestants
0-16	20
21-25	10
26-30	2
31-35	10

13. The histogram below shows the number of pecans on each of several trees.



How many pecan trees had more than 400 pecans on them?

- A. 2
 - B. 3
 - C. 5
14. Addie recorded the number of goals scored in each soccer game this season. She created the box plot below using this data.



What is the lower quartile of this data set?

- A. 2
- B. 4
- C. 6

15. The data below shows the ages, in years, of 8 cars at a used car lot.

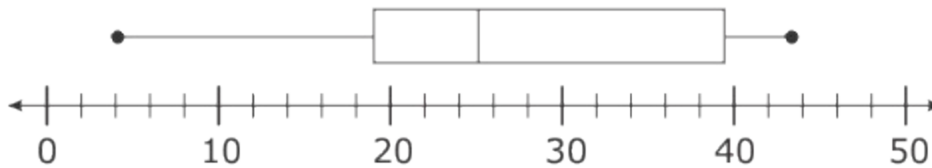
{7, 8, 10, 10, 12, 12, 14, 17}

What is the lower quartile for this data set?

- A. 9
- B. 10
- C. 11

16. Which box plot represents a set of data with a median of 25, a range of 39, and an interquartile range of 17?

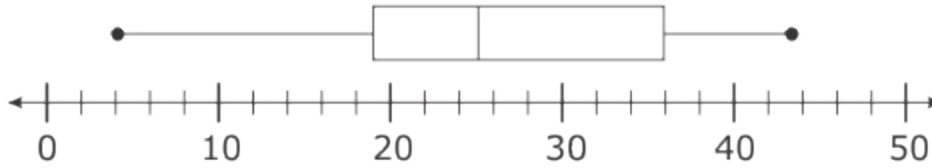
A.



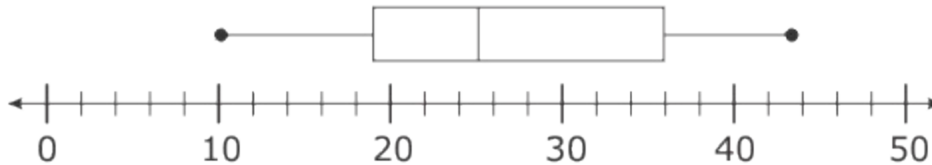
B.



C.

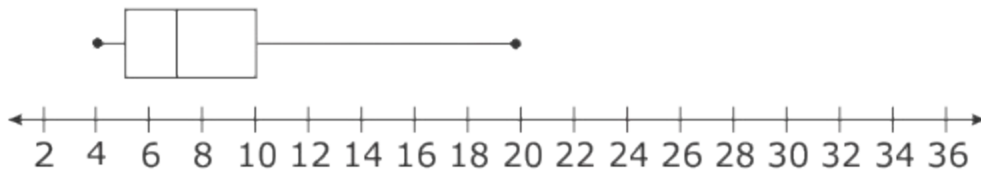


D.

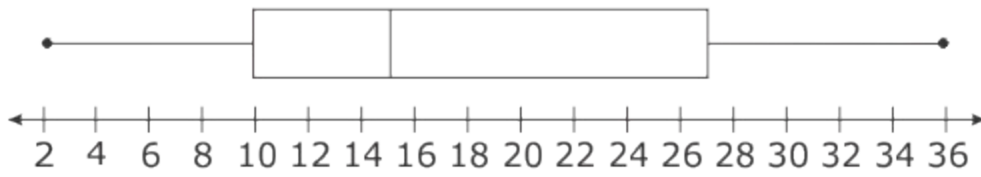


17. Which box plot has a range of 17 and an interquartile range of 5?

A.



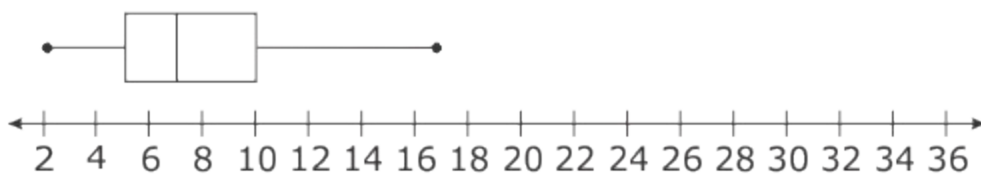
B.



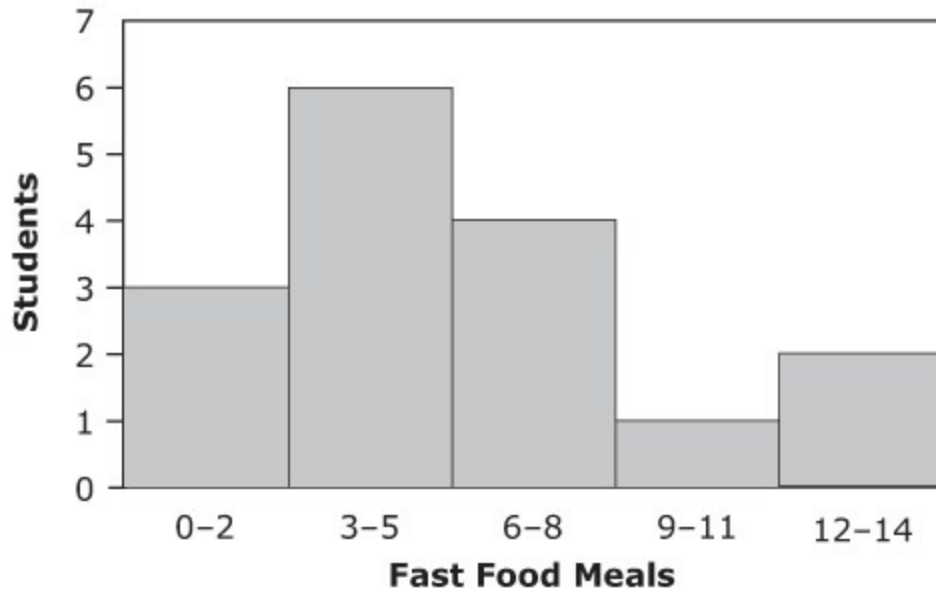
C.



D.



18. The school nurse observed several 6th grade students at lunch. She recorded how many students brought fast food meals as their lunch during a 3-week period. She made this histogram.

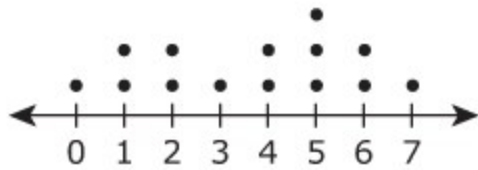


Which number represents how many students the school nurse observed?

- A. 5
- B. 6
- C. 14
- D. 16

19. Marvin counted the number of trees in the yard of each house on his street. He graphed the data on a dot plot.

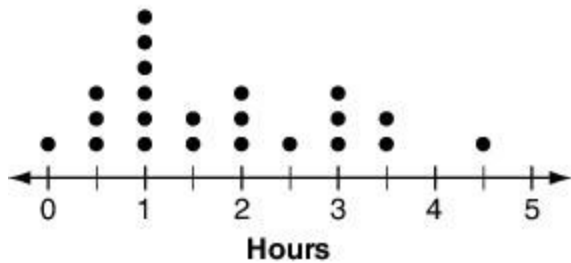
Number of Trees in the Yard



How many houses are on Marvin's street?

- A. 5
 - B. 7
 - C. 8
 - D. 14
20. The chart below shows survey results for the amount of time students spend online each day.

TIME SPENT ONLINE DAILY



KEY
● = 1 Student

How many students spend less than 2.5 hours a day online?

- A. 6
- B. 15
- C. 16
- D. 22

