

TEST NAME: **S-ID.3**  
TEST ID: **844093**  
GRADE: **09 - Ninth Grade**  
SUBJECT: **Mathematics**  
TEST CATEGORY: **School Assessment**

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. During each six-week grading period, the students in Mr. Welsh's math class are allowed to drop their lowest test score. Kim had the following scores: 96, 84, 84, 73, 87, 100, and 66. If Kim drops her lowest test score, which measure will be **most affected**?

- A. mean
- B. median
- C. interquartile range
- D. standard deviation

2. Ray worked part-time at a shoe store. The amount of money he earned for each of the six weeks is shown below.

\$45, \$83, \$38, \$45, \$30, \$60

Ray earned \$22 for working a seventh week. Which of the following statements is true for these seven weeks?

- A. The mean and the median both decrease.
- B. The median and the mean both remain the same.
- C. The median decreases and the mean remains the same.
- D. The mean decreases and the median remains the same.

3. The number of runs scored by the Lions for six games is shown below.

5, 9, 1, 5, 2, 7

If the Lions scored 13 runs in their seventh game, which statement is true?

- A. The median and the mean both remain the same.
- B. The mean and the median both increase.
- C. The median increases and the mean remains the same.
- D. The mean increases and the median remains the same.

4. Linda's quiz scores are 95, 88, 98, 92, 100, and 50. If the outlier is removed, how is the shape of the distribution of the scores affected?

- A. The distribution will become skewed right.
- B. The distribution will become skewed left.
- C. The distribution will become more normal.
- D. The distribution will not change.

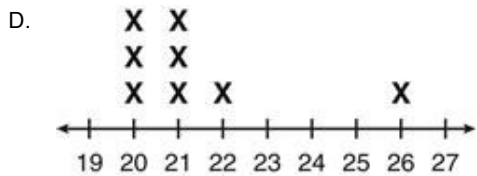
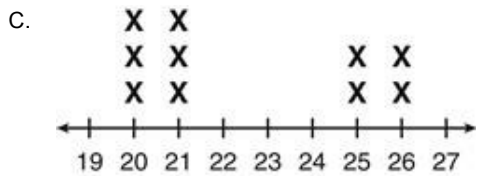
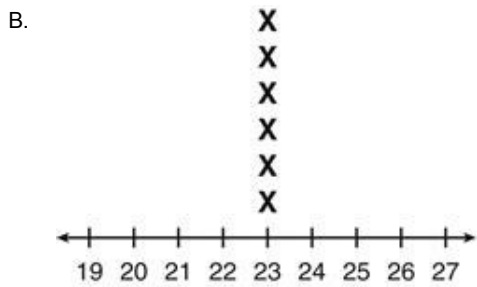
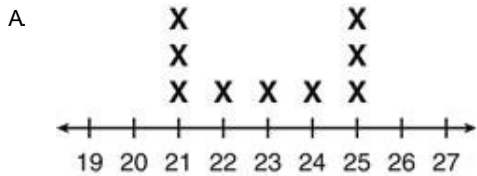
5. The number of runs scored by the Mustangs for six games is shown below.

5, 9, 0, 5, 0, 7

If the Mustangs scored 10 runs in their seventh game, which of the following statements is true?

- A. The mean and the median both increase.
- B. The median and the mean both remain the same.
- C. The median increases and the mean remains the same.
- D. The mean increases and the median remains the same.

6. Which line plot shows a data set that has an outlier?



7. The high temperatures, in degrees Fahrenheit, for eight cities on the same day are shown below.

58, 50, 87, 49, 43, 39, 52, 45

Which statement is true about the temperatures?

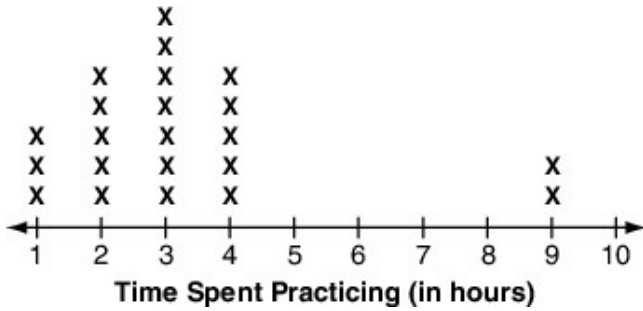
- A. The temperature of 39 causes the distribution to be skewed to the right.
  - B. The temperature of 39 causes the distribution to be skewed to the left.
  - C. The temperature of 87 causes the distribution to be skewed to the right.
  - D. The temperature of 87 causes the distribution to be skewed to the left.
8. The data below represent the ages of several people in a class.

<b>Person</b>	<b>Age</b>
Mr. Smith	45
Sam	12
Chris	11
Lovell	13
Christina	12
Susan	12

What effect does Mr. Smith's age have on the data set?

- A. Mr. Smith's age increases the mode of the data.
- B. Mr. Smith's age decreases the mean of the data.
- C. Mr. Smith's age increases the mean of the data.
- D. Mr. Smith's age decreases the median of the data.

9. The line plot below shows the number of hours each member of a basketball team spent practicing the week before the team's first game.



Which statement is the **most** reasonable interpretation of the data distribution?

- A. The coach recommended that each player practice between 5 and 8 hours.
- B. The coach recommended that each player practice between 2 and 4 hours.
- C. The coach recommended that each player practice for at least 9 hours.
- D. The coach recommended that each player practice for 1 hour.
10. A set of data has a mean of 58 and only one outlier of 92. Which statement about this data set must be true?
- A. The range is 34.
- B. The mode is equal to the mean.
- C. The mean is greater than the median.
- D. The distribution curve is skewed to the right.
11. An outlier with the value of 14 is added to the data set 3, 4, 5, 6, and 7. How does the outlier affect the mean and median?
- A. The mean increases by 0.5, and the median increases by 1.5.
- B. The mean increases by 1.5, and the median increases by 0.5.
- C. The mean increases by 1.5, and the median increases by 2.0.
- D. The mean increases by 2.0, and the median increases by 1.5.

12. The number of books 11 students read during their summer vacation are shown below.

5, 7, 4, 23, 3, 2, 4, 4, 3, 8, 6

Which statement below is true?

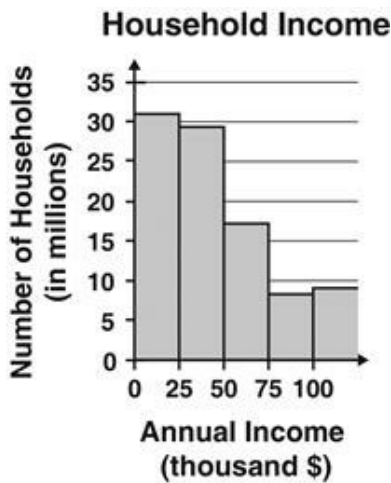
- A. The student who read 2 books caused the data distribution to be skewed to the left.
  - B. The student who read 2 books caused the data distribution to be skewed to the right.
  - C. The student who read 23 books caused the data distribution to be skewed to the left.
  - D. The student who read 23 books caused the data distribution to be skewed to the right.
13. Gabriella's quiz grades are shown below.

88, 92, 92, 96, 98

Gabriella scored a 20 on her sixth quiz. What effect does this score have?

- A. The low score causes the median to increase.
- B. The low score causes the median to decrease.
- C. The low score causes the mean to increase.
- D. The low score causes the mean to decrease.

14. The graph below displays the responses of 94 million households in the United States regarding their annual household income.



Which statement is true for the data in this graph?

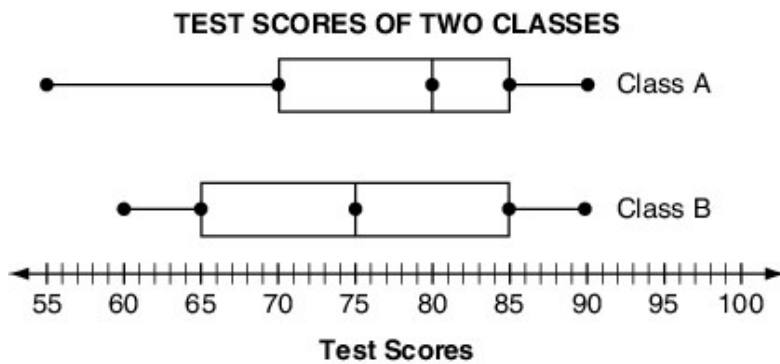
- A. Most Americans make less than \$25,000 per year.
  - B. Most Americans make more than \$50,000 per year.
  - C. The range of household incomes of the United States is \$75,000.
  - D. The median household income is between \$25,000 and \$50,000.
15. Becky worked part-time at a restaurant. The amount of money she earned for each of six weeks is shown.

\$50, \$82, \$39, \$50, \$31, \$70

Becky earned \$23 for working a seventh week. Which statement for these seven weeks is true?

- A. The mean and the median both decrease.
  - B. The median and the mean both remain the same.
  - C. The median decreases and the mean remains the same.
  - D. The mean decreases and the median remains the same.
16. Nine runners were each timed on a race course. Their finish times, in seconds, were 23, 31, 28, 32, 34, 26, 36, 25, and 29. Two more runners will now run the course. What should be their finish times, so that the mean finish time increases but the median remains the same?
- A. 24 seconds and 27 seconds
  - B. 27 seconds and 33 seconds
  - C. 30 seconds and 33 seconds
  - D. 33 seconds and 36 seconds

17. The box-and-whisker plots below show the distribution of math test scores of students in two different classes with the same, odd number of students.

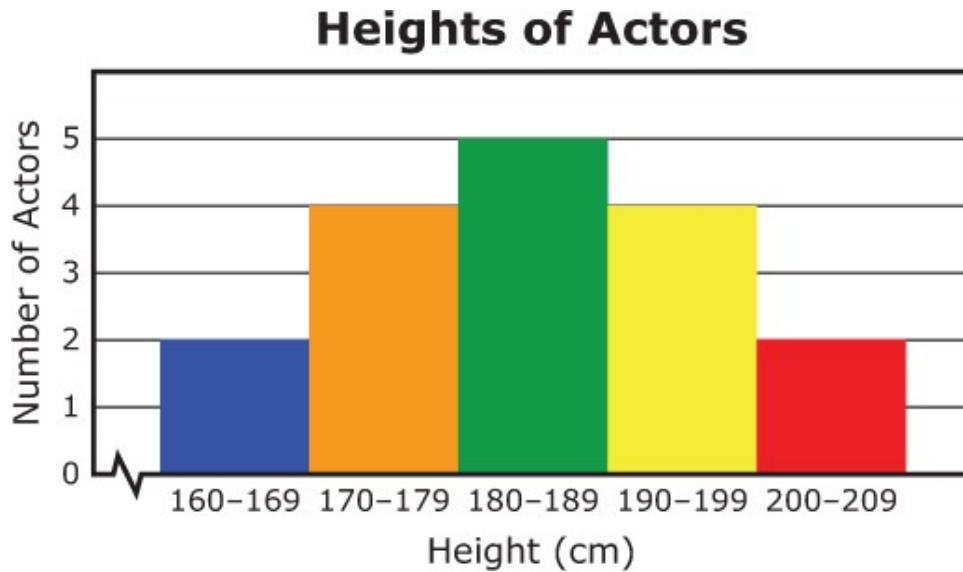


Which statement **best** compares the performance of class A and class B on this math test?

- A. All students in class A performed better than all students in class B.
- B. All students in class B performed better than all students in class A.
- C. The majority of students in class A performed better than the majority of students in class B.
- D. The majority of students in class B performed better than the majority of students in class A.



18. The actors in a play are being measured for costumes. The histogram shows the distribution of the heights of 17 of the actors.



The heights of 3 more actors are measured and the distribution becomes skewed to the left. What could the heights of the 3 actors be?

- A. 169 cm, 180 cm, and 202 cm
  - B. 170 cm, 171 cm, and 209 cm
  - C. 178 cm, 185 cm, and 191 cm
  - D. 179 cm, 190 cm, and 206 cm
19. The salaries of the employees at a company are shown below.

\$40,000, \$45,000, \$48,000, \$52,000, \$48,000, \$46,000, \$37,000,  
\$45,000, \$90,000, \$42,000

Which statement is true about the data set?

- A. The salary of \$37,000 causes the median to be significantly lower than the mean.
- B. The salary of \$37,000 causes the mean to be significantly lower than the median.
- C. The salary of \$90,000 causes the median to be significantly greater than the mean.
- D. The salary of \$90,000 causes the mean to be significantly greater than the median.

20. The number of runs scored by the Lions for six games is shown below.

5, 8, 1, 5, 2, 7

If the Lions scored 14 runs in their seventh game, which of the following statements is true?

- A. The mean and the median both increase.
- B. The median and the mean both remain the same.
- C. The median increases and the mean remains the same.
- D. The mean increases and the median remains the same.

21. The table below shows the lengths of fences a company installed during a week.

400 feet	460 feet	380 feet	410 feet
450 feet	2,250 feet	470 feet	380 feet
275 feet	520 feet		

Which statement is true?

- A. The 275-foot fence caused the mean to be significantly lower than the median.
- B. The 275-foot fence caused the median to be significantly lower than the mean.
- C. The 2,250-foot fence caused the mean to be significantly greater than the median.
- D. The 2,250-foot fence caused the median to be significantly greater than the mean.

22. Tina recorded the low temperatures for the last 7 days. Here are her observations:

72°F, 75°F, 70°F, 59°F, 74°F, 72°F, 76°F

Which value from the data set is an outlier?

- A. 17
- B. 59
- C. 72
- D. 76

23. The list below shows the number of hits six players on a baseball team had during a season.

24, 18, 36, 40, 28, 22

A seventh player on the team had 63 hits. Which measure would be affected the most by including the seventh player?

- A. mean
  - B. median
  - C. standard deviation
  - D. interquartile range
24. The mean length of 7 books is 258 pages. The longest book has 294 pages. What is the mean length of the other 6 books?
- A. 216 pages
  - B. 222 pages
  - C. 252 pages
  - D. 276 pages
25. **The bowling scores of 100 participants in an annual tournament were recorded and entered into a computer program. While examining the data, it was noticed that the highest score was typed in as 992 instead of the actual value of 229. Which measure of spread will be affected most when the error is corrected?**
- A. range
  - B. variance
  - C. interquartile range
  - D. standard deviation
26. If 20 is added to the data set below, which statement will be true?

50, 55, 55, 60, 62

- A. The median will be 20.
- B. The mode will increase.
- C. The mean will increase.
- D. The mean will decrease.

27. The number of runs scored by the Stars for six games is shown below.

4, 9, 2, 4, 1, 6

If the Stars scored 14 runs in their seventh game, which of the following statements is true?

- A. The mean and the median both increase.
- B. The median and the mean both remain the same.
- C. The mean increases and the median remains the same.
- D. The median increases and the mean remains the same.

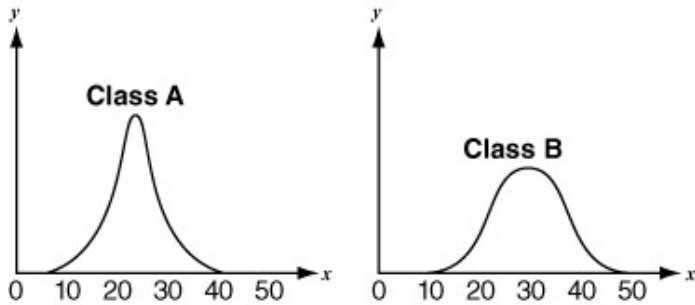
28. Thomas spent two weeks at a lakeside cabin and went fishing every day. The table below shows the number of fish he caught each day of the two-week period.

	Mon	Tue	Wed	Thurs	Fri	Sat	Sun
Week 1	0	4	9	2	6	3	4
Week 2	10	7	5	8	3	6	3

If he had caught  $x$  fewer fish on one of the days of Week 1, both sets of data would have the same range. What is the value of  $x$ ?

- A. 1
- B. 2
- C. 7
- D. 9

29. Two different classes with the same number of students took a 50-point test. The image below shows the curves that represent the frequencies (on the  $y$ -axis) of points earned (on the  $x$ -axis) by the students in class A and class B.



Which of these statements can be concluded about the data for class A compared to the data for class B?

- A. Class A had a greater average number of points earned than class B.
  - B. Class A had a greater standard deviation in the frequency of points earned than class B.
  - C. The points earned overall by class A are greater than the points earned overall by class B.
  - D. The points earned by class A are more similar to each other than the points earned by class B.
30. A class collected data on the weight of each hardcover textbook in their backpacks. The mean weight of the books was 2.3 pounds with a standard deviation of 0.7 pound. If these textbooks were softcover editions, each would weigh 0.3 pound less. What would be the mean weight and standard deviation of the softcover editions of these same books?
- A. The mean would be 2 pounds, and the standard deviation would be 0.4 pound.
  - B. The mean would be 2 pounds, and the standard deviation would remain at 0.7 pound.
  - C. The mean would remain at 2.3 pounds, and the standard deviation would be 0.4 pound.
  - D. The mean would remain at 2.3 pounds, and the standard deviation would remain at 0.7 pound.

31. The ages of nine employees at a company are shown below.

45, 50, 52, 58, 63, 63, 41, 58, 49

The company hires a tenth employee who is 28 years old. What effect does the new employee have on the shape of the data distribution?

- A. The new employee causes the distribution to become skewed to the right.
- B. The new employee causes the distribution to become skewed to the left.
- C. The new employee causes the distribution to become more symmetrical.
- D. The new employee causes the distribution to become less spread out.

32. The data set below has an outlier of 42.

2, 5, 12, 15, 19, 4, 6, 11, 16, 18, 12, 12, 42

What effect does removing the outlier have on the distribution of the data?

- A. The mean will decrease.
- B. The median will decrease.
- C. The mean will increase.
- D. The median will increase.

33. **Kim worked part-time at a supermarket. The amount of money he earned for each of the six weeks is shown below.**

**\$50, \$80, \$39, \$50, \$32, \$67**

**Kim earned \$22 for working a seventh week. Which of the following statements is true for these seven weeks?**

- A. The mean and the median both decrease.
- B. The median and the mean both remain the same.
- C. The mean decreases and the median remains the same.
- D. The median decreases and the mean remains the same.

34. Given the following data set

6, 9, 12, 14, 7, 9, 6, 8, 25, 12, 14

What is the mean of the data set without the outlier(s)?

- A. 9.2
- B. 9.7
- C. 11.1
- D. 12.4

35. The number of points a basketball team scored in 8 games are shown below.

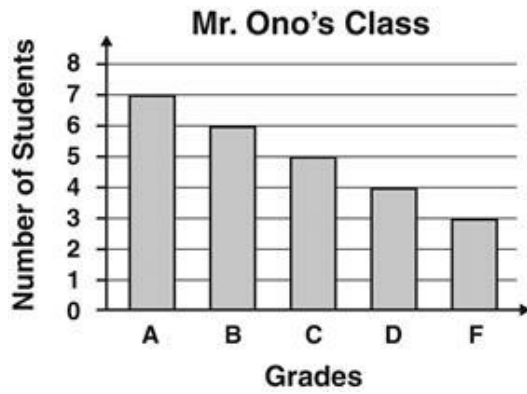
82, 89, 88, 83, 88, 52, 89, 91

Which statement is true?

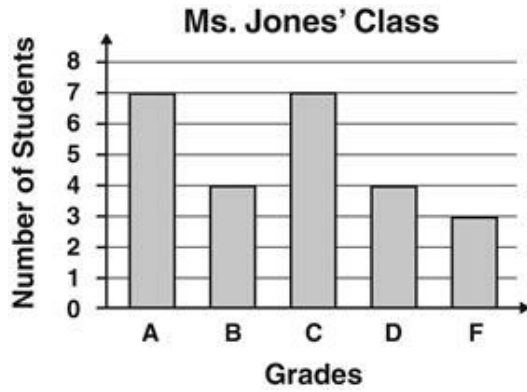
- A. When the team scored 52 points, it caused the mean number of points scored to decrease.
- B. When the team scored 52 points, it caused the median number of points scored to increase.
- C. When the team scored 91 points, it caused the mean number of points scored to decrease.
- D. When the team scored 91 points, it caused the median number of points scored to increase.

36. The following graphs show the test grades for four different algebra classes. Which class has the most symmetrical data?

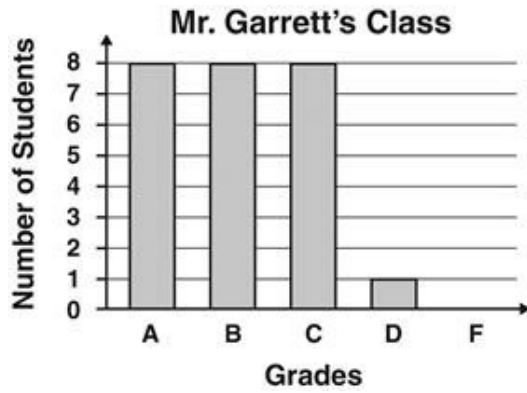
A.



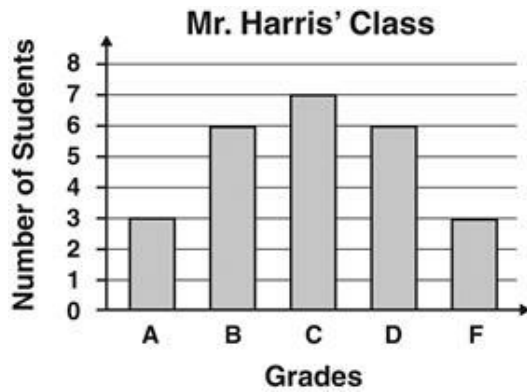
B.



C.



D.





37. The prices at several different stores for a pair of shoes are shown below.

\$78, \$79, \$81, \$82, \$83

Two days later, another store has the same shoes on sale for \$65. How does the new price affect the data?

- A. Only the range was affected.
- B. The median increased, and the range increased.
- C. The mean increased, and the range increased.
- D. The mean decreased, and the range increased.

38. The hourly salaries of the workers at a restaurant are shown below.

\$7.75, \$8.50, \$7.25, \$9.00, \$30.00, \$8.25, \$7.75, \$9.00

Which statement is true?

- A. The worker who earns \$7.25 an hour causes the mean to be a better representation of the typical salary than the median.
- B. The worker who earns \$7.25 an hour causes the median to be a better representation of the typical salary than the mean.
- C. The worker who earns \$30.00 an hour causes the mean to be a better representation of the typical salary than the median.
- D. The worker who earns \$30.00 an hour causes the median to be a better representation of the typical salary than the mean.

39. The number of runs scored by the Mustangs for six games is shown below.

5, 8, 2, 5, 2, 6

If the Mustangs scored 13 runs in their seventh game, which of the following statements is true?

- A. The mean and the median both increase.
- B. The median and the mean both remain the same.
- C. The median increases and the mean remains the same.
- D. The mean increases and the median remains the same.

40. The list below shows the number of baseball cards seven people own.

130, 142, 145, 145, 150, 163, 121

An eighth person owns 842 baseball cards. What effect does the eighth person have on the distribution of the data?

- A. The data distribution will become skewed to the left.
  - B. The data distribution will become skewed to the right.
  - C. The data distribution will become more symmetrical.
  - D. The data distribution will become less spread.
41. A realtor wants to give a customer an idea of housing prices in a neighborhood. All the houses are priced within \$20,000 of one another, except one house that is much larger and more expensive than the rest. Which measure(s) of central tendency will be most affected by the one expensive house?
- A. mode only
  - B. mean only
  - C. both mode and mean
  - D. both mean and median
42. Which statistical measure will be **most affected** if the outlier is removed from the data set below?

20,000; 24,500; 26,000; 31,000; 31,000; 63,000

- A. mean
- B. median
- C. standard deviation
- D. interquartile range

43. An English professor recorded the number of books his students read during the school year. The data he recorded had a median of 8 and a mean of 12. Which statement must be true?
- A. Most students read 8 books.
  - B. At least one student read more than 12 books.
  - C. Fifty percent of the students read more than 8 books.
  - D. Fifty percent of the students read fewer than 12 books.
44. A data set contains only one outlier. Which statistical measure will **most likely** remain the same if the outlier is removed?
- A. mean
  - B. mode
  - C. range
  - D. standard deviation
45. The table below shows the number of questions ten students answered incorrectly on a fifty-question test.

4	3	2	1
0	2	14	3
1	5		

Which statement describes the display of the distribution of questions answered incorrectly?

- A. The student who missed 0 items caused the distribution to be skewed to the right.
- B. The student who missed 0 items caused the distribution to be skewed to the left.
- C. The student who missed 14 items caused the distribution to be skewed to the right.
- D. The student who missed 14 items caused the distribution to be skewed to the left.

46. The number of runs scored by the Stars for six games is shown below.

4, 8, 0, 4, 0, 6

If the Stars scored 13 runs in their seventh game and added this value to the data set, which statement would be true?

- A. The mean and the median will both increase.
- B. The median and the mean will both remain the same.
- C. The median will increase and the mean will remain the same.
- D. The mean will increase and the median will remain the same.

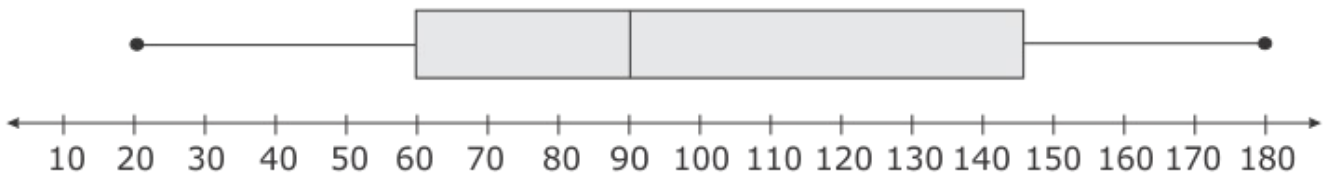
47. Pete adds 78 to the data set below.

20, 32, 32, 45, 50

Which statement below will be true?

- A. The mode will increase.
- B. The mean will remain the same.
- C. The median will remain the same.
- D. The interquartile range will increase.

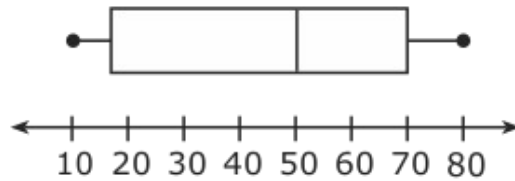
48. Two outliers will be added to the set of data displayed in the box plot below. One outlier is 1.5, and the other is 456.5.



How will the median be changed by these outliers?

- A. The median will stay the same.
- B. The median will be reduced by 1.5.
- C. The median will be increased by 229.
- D. The median will be increased by 456.5.

49. Which would be the effect on the box plot if 150 were added to the data set?



- A. The range would double.  
B. The mean would stay the same.  
C. The interquartile range becomes smaller.  
D. The maximum becomes the upper quartile.
50. Jacob recorded the ages of the people at a picnic. The data set is listed below.

12, 12, 14, 15, 16, 20, 24, 28, 32, 35, 36

What effect does the arrival of Jacob's 72-year old grandfather have on the difference between the mean and the median ages of people at the picnic?

- A. The difference increases by about 2.1.  
B. The difference increases by about 3.3.  
C. The difference increases by about 4.1.  
D. The difference increases by about 4.3.

51. Samantha is conducting a study on how many hours her classmates spend watching TV in one week. Samantha surveyed half of her class. The following data set shows her results.

5, 6, 6, 7, 8, 9, 10, 11, 7, 8, 12, 12, 14, 4, 13, 22, 26

Which statement is the **best** interpretation of the data?

- A. The best estimate for the number of hours Samantha's classmates spend watching TV per week should be found by finding the mean of the data set.
  - B. The best estimate for the number of hours Samantha's classmates spend watching TV per week should be found by finding the median of the data set.
  - C. The best estimate for the number of hours Samantha's classmates spend watching TV per week should be found by finding the mean of the data set after removing the outlier of 4.
  - D. The best estimate for the number of hours Samantha's classmates spend watching TV per week should be found by finding the median of the data set after the outliers of 22 and 26 are removed.
52. A data set is shown below.

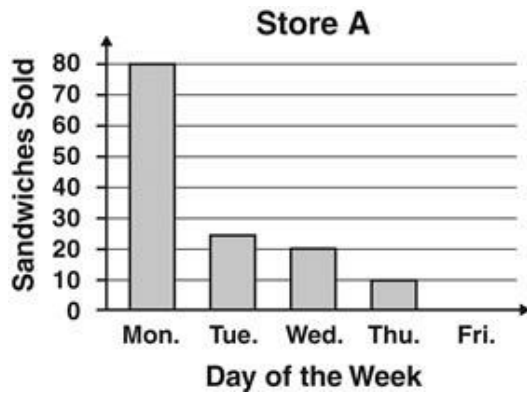
56, 64, 73, 59, 98, 65, 59

If the outlier is removed from the data set, which measure of central tendency will be **least affected**?

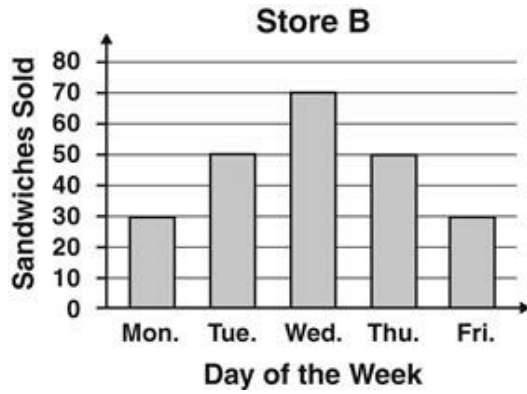
- A. range
- B. mode
- C. median
- D. mean

53. The number of sandwiches sold by four stores during one week is shown in the graphs. Which store has the most skewed data?

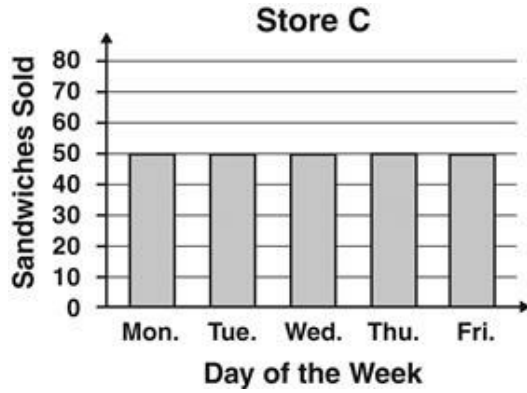
A.



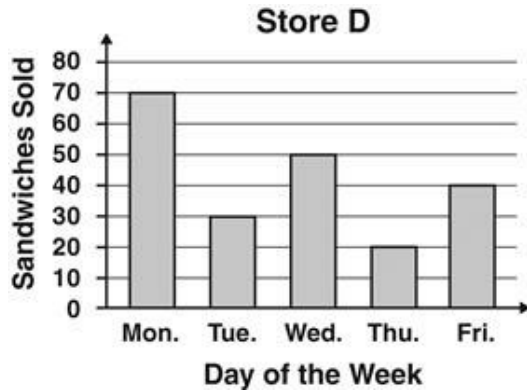
B.



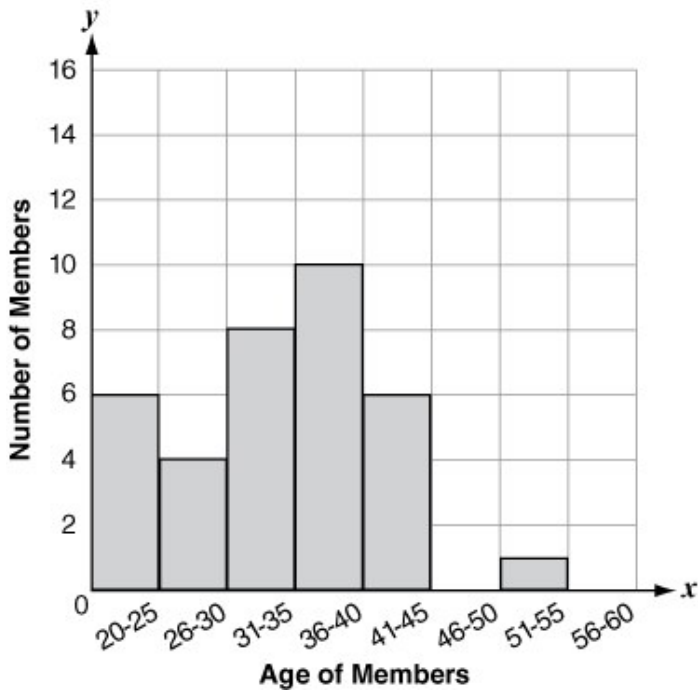
C.



D.



54. The histogram below shows the ages of the members of a community gym.



How will the mean age of members at the community gym change if the outlier in the data shown is removed?

- A. The mean age of members will increase.
- B. The mean age of members will decrease.
- C. The outlier does not affect the mean, so the mean age of members will not change.
- D. There is no outlier in this data set, so the change in the mean age of members cannot be determined.



55. Given the data set below:

15, 56, 58, 60, 63, 75, 80, 80, 85

How does the outlier affect the distribution of the data?

- A. The outlier skews the distribution to the left.
- B. The outlier skews the distribution to the right.
- C. The outlier makes the distribution more symmetrical.
- D. The outlier has no effect on the distribution.

56. Kim worked part-time at a restaurant. The amount of money she earned for each of six weeks is shown.

\$45, \$81, \$38, \$45, \$31, \$69

Kim earned \$22 for working a seventh week. Which statement for these seven weeks is true?

- A. The mean and the median both decrease.
- B. The median and the mean both remain the same.
- C. The median decreases and the mean remains the same.
- D. The mean decreases and the median remains the same.

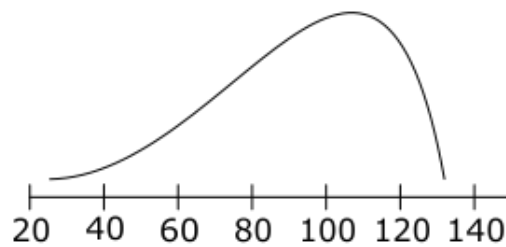
57. Jake worked part-time at a store. The amount of money he earned for each of the six weeks is shown below.

\$40, \$83, \$37, \$40, \$31, \$68

Jake earned \$23 for working a seventh week. Which of the following statements is true for these seven weeks?

- A. The mean and the median both decrease.
- B. The median and the mean both remain the same.
- C. The median decreases and the mean remains the same.
- D. The mean decreases and the median remains the same.

58. The display below shows a set of data points.



If several data points between 115 and 130 are removed, what is the effect on the display?

- A. The data becomes more peaked.
  - B. The data becomes less skewed.
  - C. The data becomes more skewed.
  - D. There is not enough information to determine the effect.
59. A bowler had the following scores after 5 games: 196, 205, 197, 280, and 202. How much does the bowler's mean score increase if the outlier is considered, compared to if the outlier is not considered?
- A. 13
  - B. 16
  - C. 19
  - D. 22
60. Given the following data set:

80, 82, 78, 91, 89, 98, 97, 73, 30, 73, 71

Which statement is true?

- A. The mean is 83.2 when outlier(s) are included.
- B. The mean is 78.4 when outlier(s) are not included.
- C. The mean is approximately 1.6 units greater than the median when outlier(s) are included.
- D. The median is approximately 1.6 units greater than the mean when outlier(s) are included.

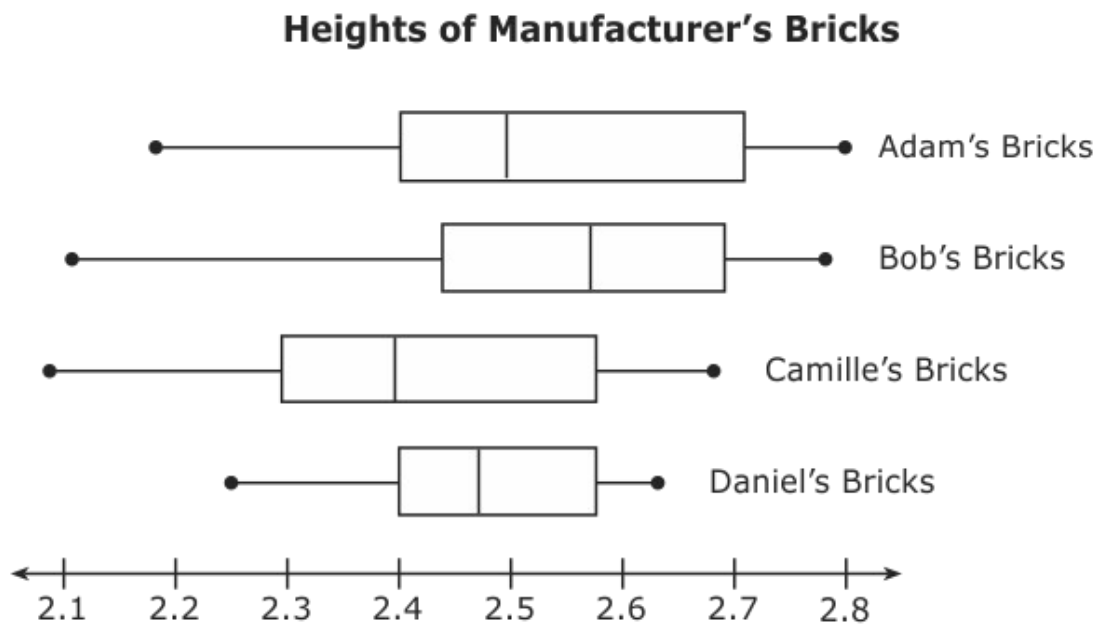
61. A spinner was spun 100 times. The results are shown in the table below.

Section	Frequency
1	40
2	15
3	20
4	8
5	7
6	10

Which statement is true?

- A. The range for the data is 30.
- B. The outlier for the data is in section 5.
- C. The distribution of the data is skewed.
- D. The distribution of the data is symmetrical.

62. Box plots for four competing brick manufacturers are shown below.



A contractor needs to buy bricks that are each as close to 2.5 inches high as possible. Which manufacturer would be the contractor's **best** choice?

- A. Adam's Bricks
- B. Bob's Bricks
- C. Camille's Bricks
- D. Daniel's Bricks

63. A teacher looks at a set of data points, and determines whether extreme points are defined as outliers using the following method:
1. Identify the interquartile range (IQR) by finding the difference between the high quartile,  $Q_3$ , and the low quartile,  $Q_1$ .
  2. Measure the distance from the extreme point to the nearest quartile.
  3. If the distance is greater than 1.5 times the IQR, the point is considered an outlier.

The teacher records the first 37 test scores for a group of students. The low quartile is 80 and the high quartile is 90. The IQR is 10.

The teacher checks to see if the extreme points 62, 58, 57, and 30 are outliers, as shown below.

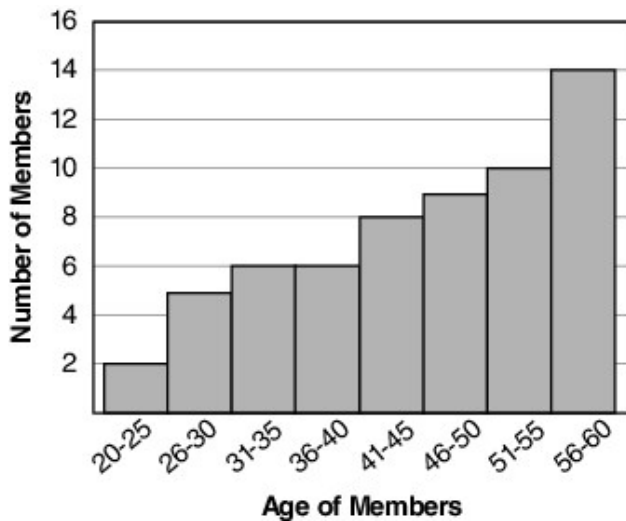
$Q_1 - 1.5(Q_3 - Q_1) = 80 - 1.5(90 - 80) = 80 - 15 = 65$ , so these four scores are outliers.

The teacher then checks to see if extreme point 99 is an outlier. Since 99 is less than  $Q_3 + 1.5(Q_3 - Q_1)$ , 99 is not considered an outlier.

The teacher records the second test scores for the same group of students and also identifies 4 unique outliers, all below  $Q_1$ . The teacher decides to remove the 4 unique outliers and evaluate the data. Which of the following statements may be true about the result of removing these outliers?

- A. It will not affect the IQR.
  - B. It will not affect the higher quartile.
  - C. It may create new outliers in the data set.
  - D. It may create a new mode in the data set.
64. A data set is normally distributed. As data points are removed from both ends of the range, what happens to the display of data?
- A. The display becomes skewed right.
  - B. The display becomes skewed left.
  - C. The display becomes more peaked at the center.
  - D. The display becomes less peaked at the center.

65. The histogram below shows the ages of the members of a club.



Which of these **correctly** describes the data shown in the histogram?

- A. The club is more desirable to an older audience because the data are skewed to the right.
- B. The club is more desirable to an older audience because the data are skewed to the left.
- C. The club is equally desirable to all age groups because the data are uniformly distributed.
- D. The club is equally desirable to all age groups because the data are symmetric.

66. For a set of data, the lower quartile is 19, the median is 31, and the upper quartile is 48. Which value would be an outlier using  $1.5 \times \text{IQR}$  criteria?

- A. -13
- B. 12
- C. 75
- D. 96

67. The distribution of annual salaries for the 21 employees in a small company has a median of \$45,000 and a standard deviation of \$10,000. The owner of the company promotes one of the employees and the employee's salary increases from \$65,000 a year to \$95,000 a year. What impact will this salary increase have on the median and the standard deviation of annual salaries for this company?

- A. Both the median salary and the standard deviation will change.
- B. Neither the median salary nor the standard deviation will change.
- C. The median salary will increase, but the standard deviation will not change.
- D. The median salary will not change, while the standard deviation will increase.

