



Name:

Date:

1. Roger is on the basketball team at Ocean View Middle School. In eleven games he scored the following number of points: 8, 10, 16, 7, 13, 8, 5, 6, 7, 10, and 8. Which statement is correct about the points Roger scored?

(A) mean = mode

(B) mean < mode

(C) median = mode

(D) median < mode

2. The points John scored in his first 12 basketball games are shown in increasing order below.

5, 7, 10, 14, 16, 16, 20, 20, 20, 21, 21, 22

John scores 29 points in the next game. Which statement is true of the median of his points for the 13 games compared to the median of his points for the first 12 games?

(A)

The median will stay the same.

(B)

The median will increase by one.

(C)

The median will increase by two.

(D)

The median will increase by four.

3. The list below shows the number of large bags of popcorn sold each day at a movie theater over five days.

18 19 22 18 23

What is the mean (average) number of large bags of popcorn sold over the five days?

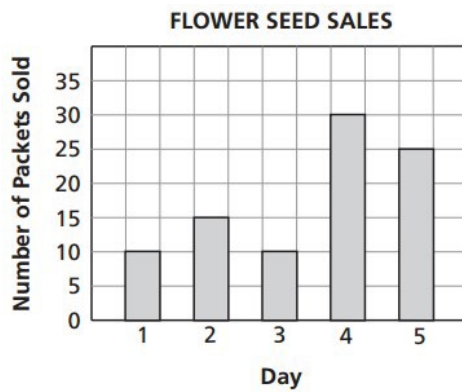
(A) 18

(B) 19

(C) 20

(D) 22

4. Ms. Peterson's class sold flower seeds. The graph below shows the number of seed packets sold during 5 days.



Part A

What is the difference between the least number of packets sold in one day and the greatest number of packets sold in one day?

Show your work.

Answer _____ packets

Part B

What is the mean (average) number of packets sold per day during the 5 days shown?

Show your work.

Answer _____ packets

5. Jacob received the following scores on his last five science tests.

81, 73, 80, 94, 97

What is the range of Jacob's scores for these five science tests?

- (A) 16 (B) 24 (C) 81 (D) 85

6. A city council recorded the number of new trees planted at seven of the city's parks. The number of trees planted is recorded below.

29, 11, 13, 29, 7, 21, 16

What is the median number of trees?

- (A) 16 (B) 18 (C) 21 (D) 29

7. Each year a fifth-grade class holds a bake sale. The list below shows the number of cookies sold in the last 7 years.

21, 33, 61, 52, 48, 21, 58

What is the mean (average) number of cookies sold in the past 7 years?

- (A) 21 (B) 40 (C) 42 (D) 48

8. Every day at 7 A.M., Tamara recorded the outside temperature in degrees Fahrenheit (°F). She placed the data for one week in the table below.

Day	Temperature (°F)
Monday	58
Tuesday	48
Wednesday	49
Thursday	61
Friday	58
Saturday	51
Sunday	39

What is the **range** for the temperatures given in the table?

- (A) 19°F (B) 22°F (C) 38°F (D) 61°F

9. The list below shows the number of seconds between each spray of water from the fountain in a town square.

25, 10, 30, 25, 40

What is the mean (average) number of seconds between each spray of water?

- (A) 25 (B) 26 (C) 30 (D) 36

10. The numbers below represent the ages of five of Terrell's relatives.

56 99 60 51 99

What is the range of the ages?

- (A) 48 (B) 60 (C) 73 (D) 99

11. The list below shows the number of dogs that stayed at Doggy Daycare over an eight-day period.

40, 31, 43, 43, 26, 31, 26, 43

What is the mode of these numbers?

- (A) 40 (B) 43 (C) 26 and 31 (D) 31 and 43

12. A clerk records the number of bags of cat food sold at her shop during a five-day period. The data is recorded below.

27, 13, 26, 14, 15

What is the mean (average) number of bags of cat food sold?

- (A) 19 (B) 17 (C) 14 (D) 13

13. The table below shows the low temperatures, in degrees Fahrenheit ($^{\circ}\text{F}$), in Millie's hometown for 5 days in February.

**FEBRUARY LOW
TEMPERATURES**

Day	Temperature
Monday	5°F
Tuesday	8°F
Wednesday	12°F
Thursday	7°F
Friday	2°F

What is the range, in degrees Fahrenheit, of the data in the table?

(A)

2°

(B)

7°

(C)

10°

(D)

12°

14. What is the mean (average) of the set of numbers below?

15, 39, 30, 10, 8, 39, 27

(A) 39

(B) 31

(C) 27

(D) 24

15. The finish times, in seconds, of ten runners in a race are shown below.

12.8 12.6 13.5 13.8 13.7 12.8 13.3 15.8 12.8 14.9

Which statement about the finish times, in seconds, is true?

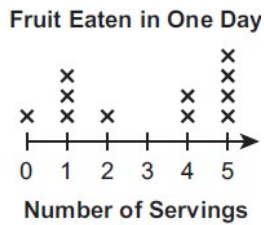
(A) Most of the finish times are higher than the mean.

(B) Most of the finish times are clustered around the mode.

(C) Most of the finish times are between 12 and 13 seconds.

(D) Most of the finish times are clustered around the median.

16. The line plot below shows the numbers of servings of fruit some students ate in one day.



When the data for two more students are added to the line plot, the mean number of servings changes but the median number of servings does not change. Which pair of numbers could be the numbers of servings of fruit for these two students?

- (A) 0, 1 (B) 2, 4 (C) 3, 3 (D) 4, 5

17. Tony asked his classmates how many kinds of cereal they had at home. The data set is shown in the list below.

0, 0, 0, 0, 0, 1, 2, 2, 3, 3, 3, 3, 3, 4, 5, 5, 6, 7, 7

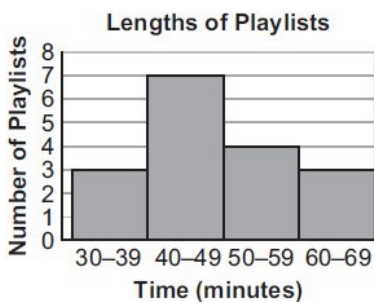
Tony calculates the mean, median, mode, and range of this data. He then excludes the values of 0 from the data and recalculates the mean, median, mode, and range. Which measure remains the same as it was for the original data set?

- (A) mean (B) median (C) mode (D) range

18. A store owner wrote down the lengths, rounded to the nearest minute, of 18 playlists on the store's music player. The lengths are shown below.

34, 37, 39, 42, 42, 44, 46, 48, 49, 49, 50, 55, 56, 56, 57, 61, 62, 64

The store owner then made the histogram shown below to represent this data.



The store owner made an error in the height of one of the bars of the histogram. Which range of times in the histogram has a bar that is incorrect?

- (A) 30-39 (B) 40-49 (C) 50-59 (D) 60-69

19. The prices of plasma televisions at an electronics store are shown below.

\$1,544 \$1,242 \$2,285 \$1,116 \$1,899 \$1,649 \$1,423 \$1,242

What is the range of the prices of these plasma televisions?

(A)

\$1,043

(B)

\$1,169

(C)

\$1,242

(D)

\$1,484

20. The table below shows the average lengths of different types of beetles.

BETLE LENGTHS

Beetle Name	Length
Bacon beetle	8 mm
Green tiger beetle	16 mm
Ground beetle	16 mm
Rove beetle	8 mm
Soldier beetle	10 mm
Maritime beetle	20 mm
Green dock leaf beetle	6 mm

What is the median, in millimeters, of the data?

(A)

8

(B)

10

(C)

12

(D)

14

21. Jacob has 1 penny, 5 nickels, 3 dimes, and 4 quarters. What is the median of the values of Jacob's coins?

(A)

5 cents

(B)

10 cents

(C)

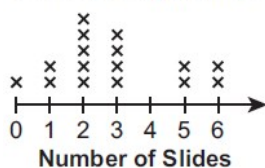
12 cents

(D)

24 cents

22. Esther counted the number of slides at the playgrounds at each park in her city. She correctly calculated that the mean number of slides per playground is 3. The incomplete line plot below shows some of Esther's data.

Slides at Playgrounds



Which statement **could** describe the information that is missing from Esther's line plot?

(A)

There should be data for 1 more playground with 2 slides.

(B)

There should be data for 1 more playground with 4 slides.

(C)

There should be data for 1 more playground with 5 slides.

(D)

There should be data for 2 more playgrounds with 3 slides each.