1. Thomas Wade conducted book signings in several rural towns. The number of people who attended the book signings are represented by the box plot below.

Which set of data below represents the median and third quartile, in that order?
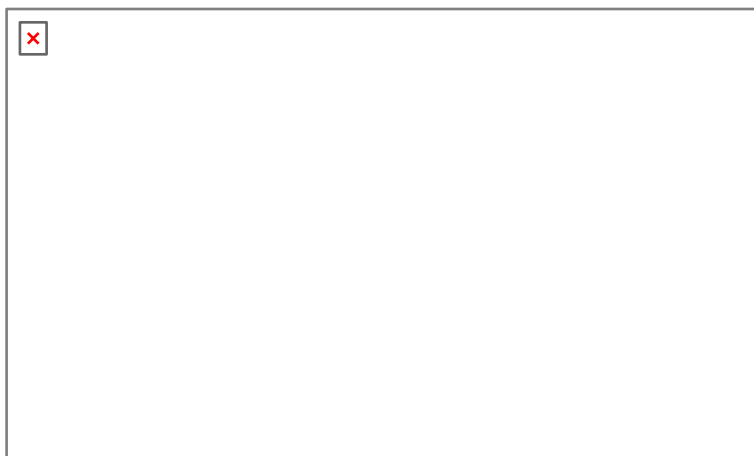
A. 21, 32   **C.** 36, 40

B. 25, 32   **D.** 32, 36

2.

Annita sat outside the grocery store selling cookbooks. She kept track of how many cookbooks she sold over a seven day period. She added the number of books sold each day to the previous day and plotted her results on the line graph shown.

When rounded to the nearest whole number, which of the following is closest to the mean number of cookbooks Annita sold each day?

A. 5   **C.** 34

B. 22   **D.** 7

3.

stem	leaf
809	3 3 4 5 7 9
810	1 1 1 2 4 5 6 7 8 8 8 9 9
811	1 3 3 3 4 6 8 9 9
812	1 2 2 3 3 3 4 7 8 9
813	1 1 2 4 5 6 8 8

What is the range of the data shown in the stem-and-leaf plot above?

A. 48   **C.** 5

B. 45   **D.** 38

4. Margaret sold candles for a fundraiser for school. The number she sold per day over a three-week period are represented by the box plot below.

What is the interquartile range of her data?

A. 20

B. 17

C. 11

D. 6

5.

82, 127, 109, 111, 114, 126, 87,
91, 105, 102, 112, 121, 94, 95, 116

Which of the box-and-whisker plots below represents the data set above?

W.

X.

Y.

Z.

A. X

B. Y

C. Z

D. W

6. The following stem-and-leaf plot shows the number of copies of a newly released book ordered from Randi bookstores in the Midwest.

```
14 | 2 3 4 6 6 7
15 | 3 5 6 9
16 | 4 7 7
17 | 2 2 2 3 5 6
```

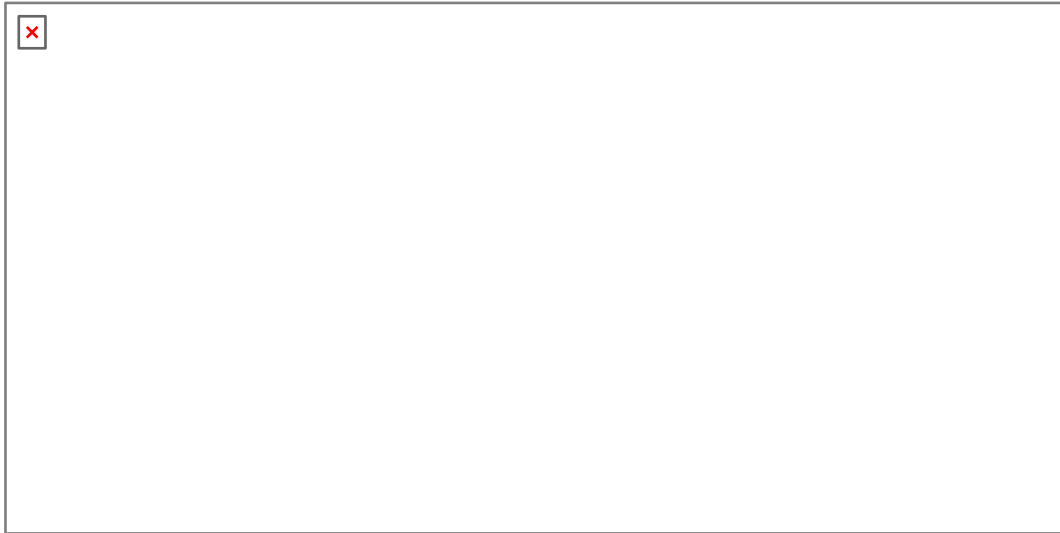What is the median number of books ordered?

A. 159

B. 167

C. 164

D. 172

7. A catering service specializes in weddings, holiday parties, and company events. The following bar graph shows the average number of each type of event that they booked each month for the last 5 years.

Use the graph to predict in which of the following months the service will book the most number of company events.

A. July   **C.** August
B. Decemeber   **D.** November

8. Tomas conducted a survey at several restaurants across town. The number of responses he received are represented by the box plot below.
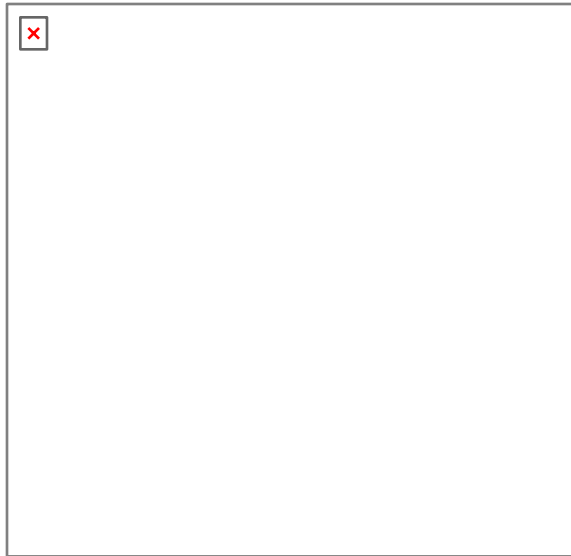

What percent of the data is above 23?

A. 66%   **C.** 50%
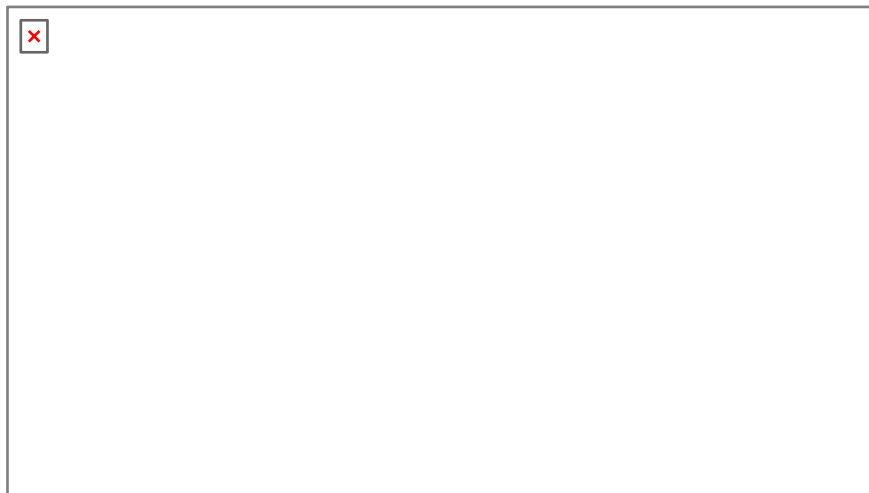**B.** 75%   **D.** 25%

9. A group of people was surveyed about the amount of soda and water they drink each day. The graph below shows the results of the survey.

Based on the graph, which of the following is a valid conclusion?

A. As the number of ounces of water a person drinks decreases, the number of ounces of soda he or she drinks stays the same.

C. As the number of ounces of water a person drinks increases, the number of ounces of soda he or she drinks decreases.

B. As the number of ounces of water a person drinks decreases, the number of ounces of soda he or she drinks decreases.

D. As the number of ounces of water a person drinks increases, the number of ounces of soda he or she drinks increases.

10.

The manager of a car lot made the given circle graph to track the number of each type of vehicle sold for the previous year. Use the graph to predict the category from which the lot should experience the second most number of sales.

A. Sedan

C. Economy

B. SUV

D. Van

11.

33, 40, 42, 33, 34, 38, 16, 24,
64, 64, 67, 68, 72, 25, 31, 52, 58

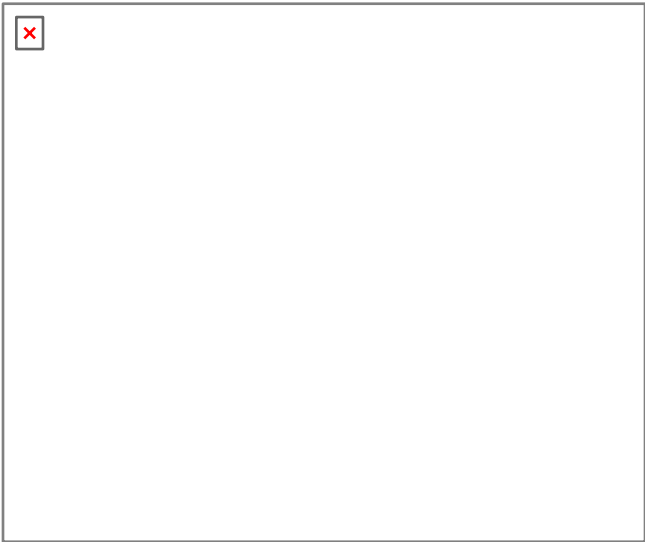Which of the box-and-whisker plots below represents the data set above?

W.

X.

Y.

Z.

A. Z

B. Y

C. W

D. X

12. At a basketball tryout, Coach Mark records each student's percentage of goals made at various distances from the goal. The graph below shows the results of the basketball team tryout.

Based on the graph, which is a likely percentage of goals made for a student standing 9 feet from the goal?

A. 83%

B. 6%

C. 64%

D. 33%

13. Halle planted mint and basil plants in her herb garden. She measured the height of each herb plant at the end of each week for six weeks. The results are shown in the line graph below.

What is the difference in the ranges for both herbs during the six weeks shown in the graph?

A. 5 cm

C. 7 cm

B. 4 cm

D. 3 cm

14.

46, 51, 54, 58, 64, 70, 74, 74, 69, 60, 52, 46

Which of the box-and-whisker plots below represents the data set above?

W.

X.

Y.

Z.

A. Y

C. Z

B. W

D. X

15. The following stem-and-leaf plot shows the on-record attendance for regional charity drive meetings.

2 | 1 2 4 8 8 9

```
3   0 3 5 7
4   6 6
5   0 0 1 3 4 8
6   0 1 3 4 4 4 7
```

What is the mode of these values?

  A. 50   **C.** 46

  B. 28   **D.** 64

16. When helping her little sister with her homework, Monique picked some products randomly from the multiplication chart. The products are represented by the box plot below.

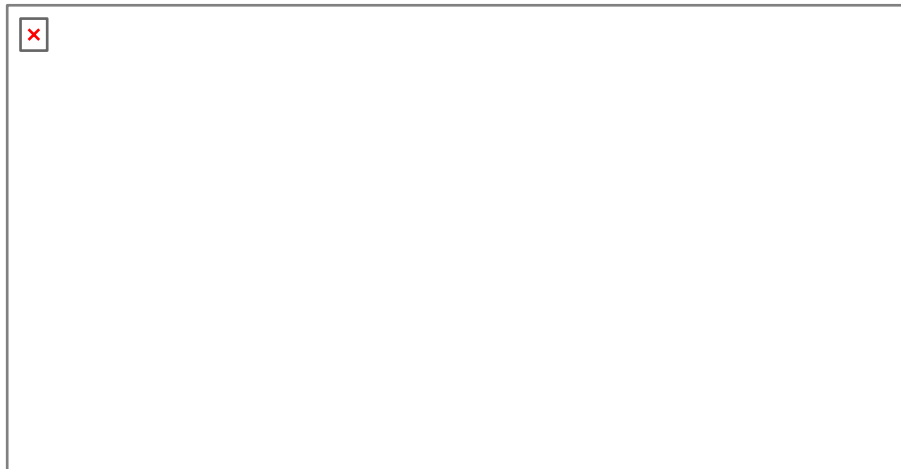
What percent of the data is below 33?

  A. 33%   **C.** 75%

  B. 25%   **D.** 50%

17.

A company made a bar graph showing the amount of sales for each month in thousands of dollars. Which of the following is closest to the mean amount of sales for the four-month period?

  A. $6,500   **C.** $7,500

  B. $7,625   **D.** $7,000

18. A travel agency that runs cross-country tours keeps a record of the remaining distance each day of the tour. This is shown on the graph below.

Based on the information in the graph, about how far does the tour travel each day, on average?
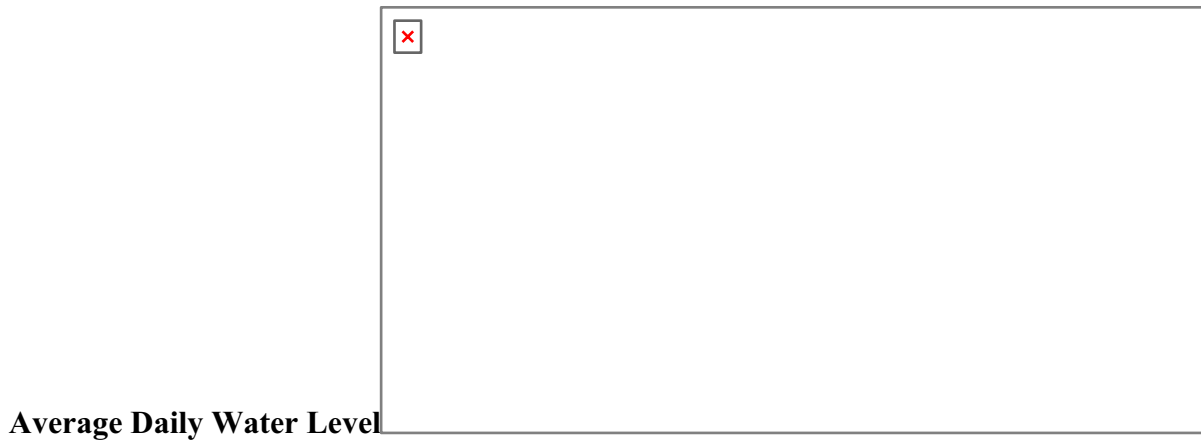
A. 70 miles per day

C. 100 miles per day

B. 50 miles per day

D. 80 miles per day

19. Hilltop and Valley View each have water towers. Each tower can hold up to 10,000 gallons of water. The following line graph shows the average daily water level for each tower for the previous year.

Average Daily Water Level

Using the graph, predict at which of the following times Hilltop's water tower will have more water than Valley View's water tower.
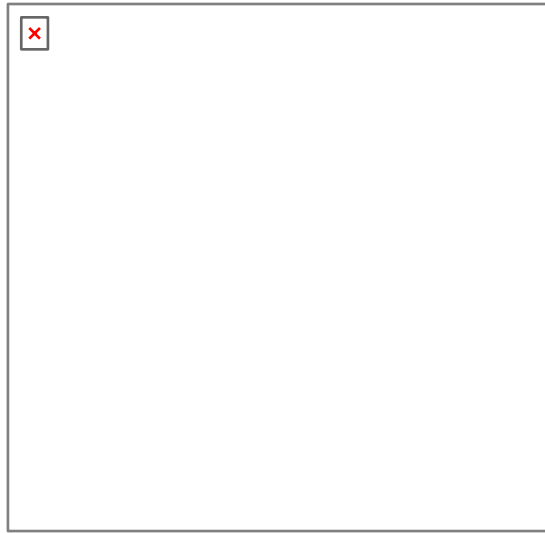
A. 2 pm

C. 7 pm

B. 3 pm

D. 1 am

20. A group of people was surveyed about the amount of soda and water they drink each day. The graph below shows the results of the survey.

Based on the information in the graph, if a person drinks 24 ounces of soda a day, approximately how many ounces of water would he or she drink?

A. 48 ounces

B. 28 ounces

C. 20 ounces

D. 16 ounces