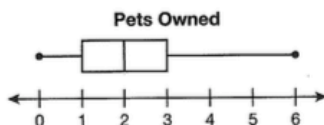


3 LESSON PRACTICE

Use the information and box plot below for questions 1 and 2.

Jason surveyed 32 people about how many pets they have. He displayed the data with a box plot.



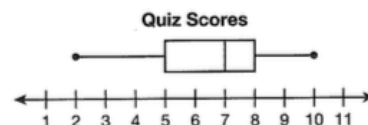
1 Which of the following statements is true?

- ☐ A. The range of the data is 5.
- ☐ B. The interquartile range of the data is 2.
- ☐ C. The median number of pets owned is 3.
- ☐ D. The minimum number of pets owned is 1.

2 Which of the following statements is true?

- ☐ A. There are 3 data points in each quartile.
- ☐ B. More than 8 people have 0 pets.
- ☐ C. At least seventy-five percent of the people own one or more pets.
- ☐ D. One half of the people have between 1 and 6 pets.

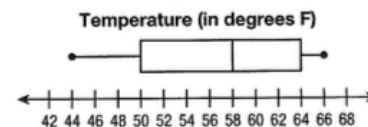
3 The box plot shows the quiz scores of 20 students.



Which of the following is a true statement?

- ☐ A. The interquartile range is 8.
- ☐ B. The minimum quiz score is 5.
- ☐ C. The median quiz score is 7.
- ☐ D. 10 students have a score between 8 and 10.

4 The box plot shows the temperature every hour for 7 hours.



What is the median temperature?

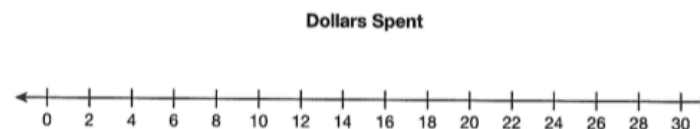
- ☐ A. 64°F
- ☐ B. 58°F
- ☐ C. 50°F
- ☐ D. 44°F

5 Julia asked people exiting a convenience store how much they spent to the nearest dollar. She recorded her data in the table below.

Dollars Spent									
10	1	5	23	30	27	18	28	5	4
17	26	25	13	11	19	7	3	21	9

Part A

Display Julia's data on a box plot.

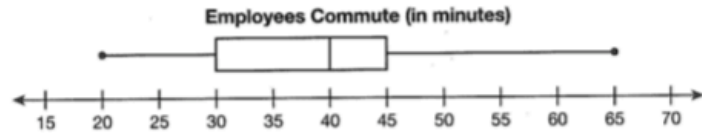


Part B

Describe the amount of money the people who Julia surveyed spent. Include the following in your description:

- an amount that more than half of the people spent
- the median amount spent
- the range of money spent
- the interquartile range

- 6 A company surveyed 15 employees to find how long it takes them to commute to work. The data is displayed in the box plot below.

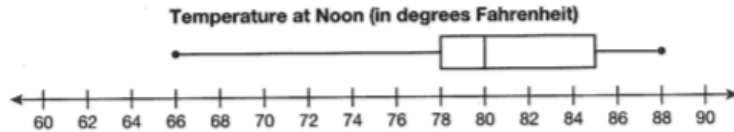


Which of the following statements describes the data?

- ☐ A. The minimum time it takes to commute is 20 minutes.
- ☐ B. The first quartile is 30 minutes.
- ☐ C. The third quartile is 40 minutes.
- ☐ D. The median is 45 minutes.
- ☐ E. The maximum time it takes to commute is 65 minutes.
- ☐ F. The interquartile range is 45 minutes.

- 7 Name the five pieces of information you need to make a box plot.

- 8 Mikah recorded the temperature every day at noon for 4 weeks. She made the box plot below to display data she collected.



Describe the variability of Mikah's data. Do you think there is an outlier? Justify your answer.

- 9 Ben recorded the heights of his classmates.

Heights (in inches)

45	49	52	60	59	48	51
59	47	48	55	58	59	60
46	58	54	56	60	52	50

Part A

Display Ben's data with a box plot.

Part B

Two students were absent the day Ben recorded the heights. The heights of these two students are 45 inches and 60 inches. How would the box plot change if you added these two measurements to the data displayed?