

1 There are a total of 4 freshmen, 5 sophomores, and 16 juniors in Eric’s math class. He made a circle graph representing the numbers of freshmen, sophomores, and juniors in the class. What should be the measure for the central angle of the sector representing the number of sophomores in Eric’s math class?

Mark your answer here: 1. (A)(B)(C)(D)

- A. 5°
- B. 20°
- C. 72°
- D. 90°

2 The years of canoeing experience for each of 30 people who plan to go on a canoe trip are shown in the table below.

Mark your answer here: 2. (A)(B)(C)(D)

Years of Canoeing Experience

Number of Years	Number of People
Less than 3	9
3 through 6	12
More than 6 but less than 9	3
9 or more	6

In a circle graph that correctly shows this data, what is the measure of the central angle of the sector labeled “9 or more”?

- A. 6°
- B. 20°
- C. 72°
- D. 108°



3 Doreen is analyzing a box-and-whisker plot that correctly shows the results of a poll in which a representative sample of people in Boston were asked to state their annual incomes.

Mark your answer here: 3. (A)(B)(C)(D)

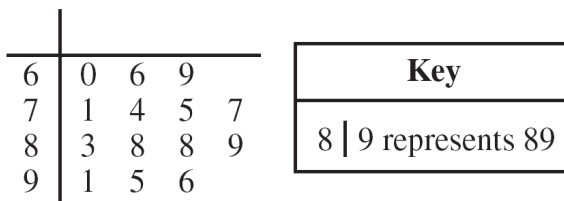
Which of the following will Doreen be **unable** to determine from this box-and-whisker plot?

- A. the highest annual income among those polled
- B. the median annual income among those polled
- C. the mean annual income among those polled
- D. the lowest annual income among those polled

4 The stem-and-leaf plot below shows 14 scores on Ms. Helm’s physics test.

Mark your answer here: 4. (A)(B)(C)(D)

**Physics
Test Scores**



What is the median of the scores shown above?

- A. 88
- B. 83
- C. 80
- D. 78

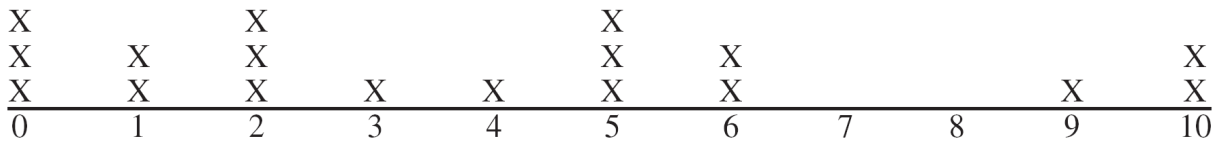


5 Luis plans to display the ages of all of the tournament winners among professional golfers. Which of the following displays would make the median age of these golfers easiest to determine?

Mark your answer here: 5. Ⓐ Ⓑ Ⓒ Ⓓ

- A. bar graph
- B. circle graph
- C. box-and-whisker plot
- D. scatterplot

6 In August, the Boston Celtics had 18 players on their pre-season roster. The number of years of NBA experience for these players is displayed in the line plot below.



What is the median number of years of experience?

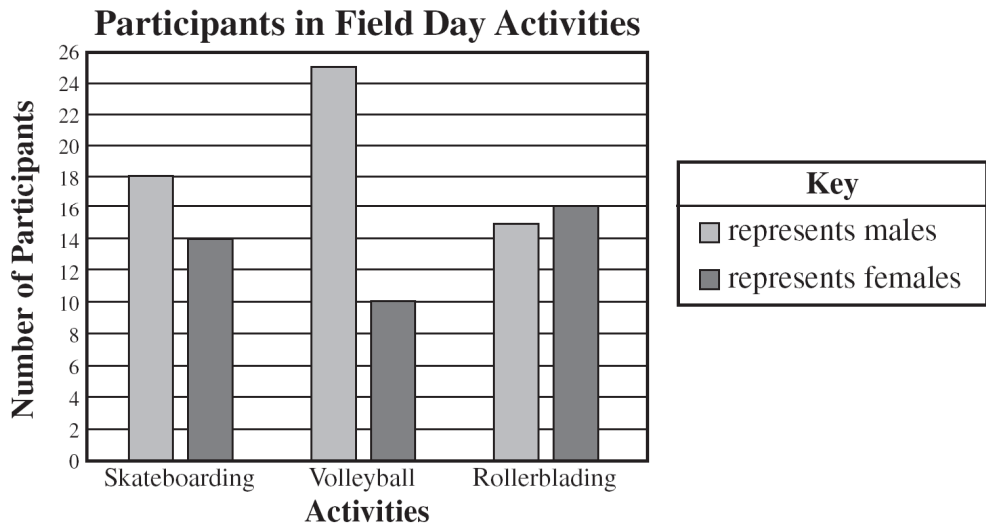
Write your answer here:



Directions: For the problem below, use a separate piece of paper to write your answers. Your teacher will not count anything you write on this page.

7

The double bar graph below shows the number of male and female participants in three different activities at a Field Day. Each person participated in just one activity.



- a. Based on the information in the graph, what was the ratio of male to female participants overall? Show or explain how you got your answer.
- b. What percent of all of the female participants played volleyball? Show or explain how you got your answer.
- c. Sketch and label a circle graph that shows the information given in the graph for the female participants. Your sketch does not have to be exact but should show the sectors relatively proportioned. Explain how you determined the size of each sector.

