

The numbers of members in 8 workout clubs are 100, 95, 90, 85, 85, 95, 100, and 90. Use this information for Exercises 1–2.

1. Create a dot plot for the data set using an appropriate scale for the number line.



Number of Members

2. Suppose that a new workout club opens and immediately has 150 members. Is the number of members at this new club an outlier?

Sports The number of feet to the left outfield wall for 10 randomly chosen baseball stadiums is 315, 325, 335, 330, 330, 330, 320, 310, 325, and 335. Use this information for Exercises 3–4.

3. Create a dot plot for the data set using an appropriate scale for the number line.



Number of Feet

4. The longest distance to the left outfield wall in a baseball stadium is 355 feet. Is this stadium an outlier if it is added to the data set?

Education The numbers of students in 10 randomly chosen classes in a high school are 18, 22, 26, 31, 25, 20, 23, 26, 29, and 30. Use this information for Exercises 5–6.

5. Create a dot plot for the data set using an appropriate scale for the number line.



Number of Students

6. Suppose that a new class is opened for enrollment and currently has 7 students. Is this class an outlier if it is added to the data set?

Sports The average bowling scores for a group of bowlers are 200, 210, 230, 220, 230, 225, and 240. Use this information for Exercises 7–8.

7. Create a dot plot for the data set using an appropriate scale for the number line.



Bowling Scores

8. Suppose that a new bowler joins this group and has an average score of 275. Is this bowler an outlier in the data set?