Clusters, Gaps, and Outliers

Use a line plot to describe the data set. Identify any clusters, gaps, and outliers.

59, 58, 88, 64, 66, 63, 58

Use the data set 10, 19, 18, 19, 19, 20 for Exercises 1–4.

1. Make a line plot of the data, and identify any clusters, gaps, and outliers.

2. Find the mean, median, mode, and range of the data.

3. How will the mean be affected if 10 is replaced by 4? The mean will decrease by 1.

4. Remove the outlier from the data set. Then find the mean, median, mode, and range of the new set.

5. Suppose the outlier is not in the data set. Which statistic (mean, median, mode, or range) represents the data best? Explain. The median doesn’t change much, so it is probably the best representation of the data.