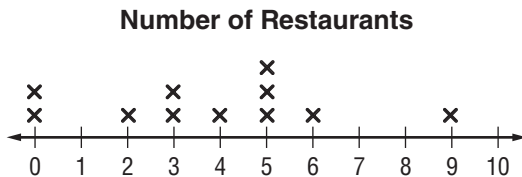


Lesson 6 Problem-Solving Practice

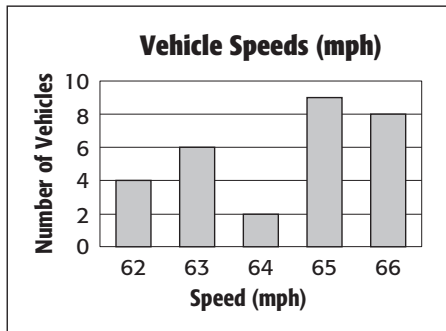
Analyze Data Distributions

FALL The line plot shows the number of restaurants people went to in the past month. Use the information in the line plot to answer Exercises 1 and 2.



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| <p>1. Describe the shape of the distribution shown. Identify any clusters, gaps, peaks, or outliers.
 The distribution is not symmetric. There is a cluster between 3 and 5. There are gaps between 0 and 2 and 6 and 9. The peak is at 5 and an outlier at 9.</p> | <p>2. Describe the center and spread of the distribution. Justify your response based on the shape of the distribution.
 The distribution is not symmetric, so the median and interquartile range are appropriate measures to use. The data are centered around the median of 4. The spread of the data around the center is 3.</p> |
|--|---|

SPEED The graph shows the speeds of several vehicles traveling down a highway. Use the information in the graph to answer Exercises 3 and 4.



- | | |
|--|--|
| <p>1. Describe the shape of the distribution shown. Identify any clusters, gaps, peaks, or outliers.
 The distribution is not symmetric. There is a cluster between 65 and 66. There are no gaps and there is a peak at 65. There are no outliers.</p> | <p>2. Describe the center and spread of the distribution. Justify your response based on the shape of the distribution.
 The distribution is not symmetric, so the median and interquartile range are appropriate measures to use. The data are centered around the median of 65. The spread of the data around the center is 3.</p> |
|--|--|

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