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- 4. Sample answer: stem-and-leaf plot or box-and-whisker plot; shows how data is distributed
- 5. Sample answer: line graph; shows changes over time
- 6. Sample answer: dot plot or bar graph; shows the number of times each outcome occurs
- 7. Sample answer: line graph; shows changes over time
- 8. a. yes; The pictograph shows the number of hours worked each month using pictures. b. yes; The bar graph shows the number of hours worked each month.
- 9. a. yes; The circle graph shows the data as parts of the whole.b. no; The bar graph shows the number of students, not the portion of students.
- 10. when the data are in terms of intervals of one category, as opposed to multiple categories; Sample answer: You can use a histogram to display the frequencies of voters in the last election by age group.
- 11. The pictures of the bikes are the largest on Monday and the smallest on Wednesday, which makes it seem like the distance is the same each day.
- 12. The break in the scale for the vertical axis makes it appear as though there is a greater difference in sales between months.
- 13. The intervals are not the same size.
- 14. The widths of the bars are different, so it looks like some months have more rainfall.
- 15. Sample answer: bar graph, pictograph, or dot plot: each bar can represent a different vegetable. circle graph: the most popular vegetable would be represented by the largest section of the circle
- 16. yes; The vertical axis has a scale that increases by powers of 10, which makes the data appear to have a linear relationship.
- 17. Sample answer: dot plot or bar graph, because you can quickly see which response appears most commonly in the set
- 18. a. The percents do not add up to 100%.
 - b. Sample answer: bar graph; it would show the frequency of each sport.