

Practice

For use with pages 596–600

Tell whether the data are *numerical* or *categorical*. Then tell which display(s) you would use to display the data. Explain your reasoning.

1. A survey was conducted where the responses were agree, disagree, and unsure.
2. A zookeeper recorded the weights of the baby animals in the zoo.
3. A study determined the average winning score of high school soccer teams.
4. A meteorologist recorded the amount of rainfall in 3 states over one year.

Tell which data display(s) allow you to identify the specified information.

5. The range of the data set
6. The least value of the data set
7. A teacher records the scores on a project and wants to group the data in intervals of 5 points. Should the teacher use a stem-and-leaf plot or a histogram? Explain.

8. Thirty people were asked to state the number of hours per week that they commute to and from work in a car. The frequency table shows the results.

a. Is the frequency table misleading? Explain.

b. What conclusions can you make from the frequency table?

| Hours spent commuting | | |
|-----------------------|-------|-----------|
| Interval | Tally | Frequency |
| 0–2 hours | | 4 |
| 3–5 hours | I | 6 |
| 6–10 hours | | 15 |
| 11–12 hours | | 3 |
| 13–20 hours | | 2 |

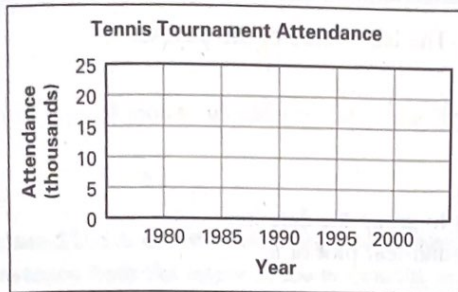
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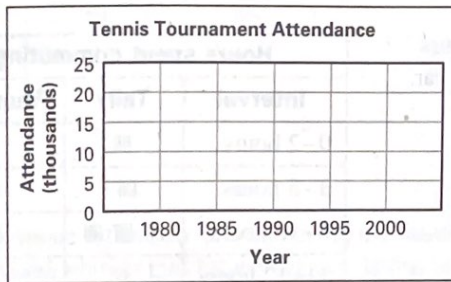
9. The table shows the number of people (in thousands) attending a tennis tournament in 10 different years.

| Tennis Tournament Attendance | | | |
|------------------------------|------------|------|------------|
| Year | Attendance | Year | Attendance |
| 1980 | 12.3 | 1990 | 17.3 |
| 1981 | 14.1 | 1992 | 20.1 |
| 1982 | 20.2 | 1995 | 15.9 |
| 1985 | 19.6 | 1999 | 21.0 |
| 1988 | 18.4 | 2000 | 18.5 |

- a. Make a line graph using every 5th year, starting with 1980. What trend does the graph show?



- b. Make a new line graph using all the years shown in the table. What trend does it show?



- c. Which line graph represents the data more accurately, the one in part (a) or the one in part (b)? Explain.