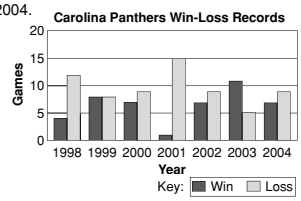
LESSON 7-3

Problem Solving

Bar Graphs and Histograms

Write the correct answer.

The double-bar graph shows the win-loss records for the Carolina Panthers football team in the years 1998-2004.



1. During how many seasons did the Panthers lose more games than they won?

   5

2. In which year did the Panthers win more games than they lost?

   2003

3. Between which 2 years did the Panthers have the greatest improvement in their win-loss record?

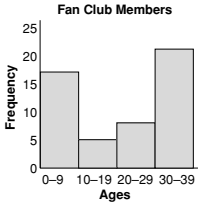
   between 2001 and 2002

4. In which year do you find the greatest range in the win-loss record?

   2001

Choose the letter for the best answer.

The histogram shows the ages of all members in a fan club.



5. How many fan club members could be teenagers?

   (A) 5 **C** 17
   B 8 **D** 21

6. How many fan club members are between the ages of 30 and 39?

   F 5 **H** 17
   G 8 (J) 22

7. In which situation would you use a histogram to display data?

   A to show how you spend money
   B to show the change in temperature throughout the day
   (C) to show the golf scores from the whole team
   D to show the life expectancy of different animals

8. In which situation would you use a bar graph to display data?

   (F) to compare the speed of different computers
   G to show how a cat spends its time
   H to show how a child's height changes as he or she grows
   J to show the distribution of math grades in your class

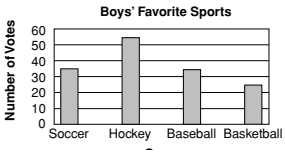
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LESSON 7-3

Reading Strategies

Reading a Graph

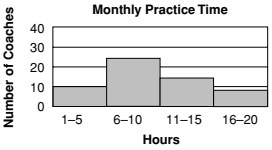
Bar graphs create pictures for data.
A random sample was taken of boys' favorite sports.



Answer the following questions about the bar graph.

1. What does the graph show? boys' favorite sports
2. What number does the scale of the graph count by? tens
3. How many boys like basketball best? about 25
4. How many boys like hockey best? about 54

Coaches were surveyed about the number of hours their teams practice each month. The data is shown in a frequency table and in a **histogram.** A histogram displays data in equal intervals with connected bars.



Answer the following questions about the histogram.

5. Where is the number of coaches located on the histogram?

   along the left side of the graph

6. The numbers on the left side of the histogram are in equal groups of what number?

   10

7. What information is located along the bottom of the graph?

   the range of hours that teams practice each month

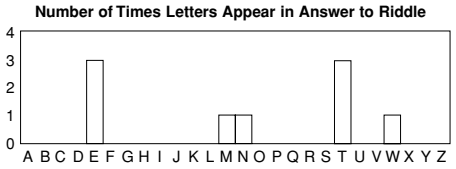
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LESSON 7-3

Puzzles, Twisters & Teasers

A Graphic Display!

Answer the question by studying the bar graph. Extract the letters from the graph to solve the riddle.





E = 1 M = 2 N = 3 T = 4 W = 5

What do you give a sick bird?

T	W	E	E	T	M	E	N	T
4	5	1	1	4	2	1	3	4

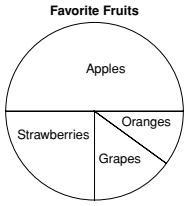
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LESSON 7-4

Practice A

Reading and Interpreting Circle Graphs

The circle graph directly below shows the results of a survey of 50 teens. They were asked about their favorite fruits. Use the graph for Exercises 1–3.



1. Did more teens pick apples or grapes?

   apples

2. About what percent of teens picked strawberries?

   about 25%

3. According to the survey, 10% of teens chose oranges. How many teens chose oranges?

   5 teens

The circle graph below shows the results of a survey of 100 people. They were asked about their favorite doughnut flavors. Use the graph for Exercises 4–6.



4. Did more people pick frosted or filled?

   filled

5. About what percent of people picked glazed?

   about 50%

6. According to the survey, 30% of the people chose filled doughnuts. How many people chose filled?

   30 people

Would you use a bar graph or a circle graph to show the information? Explain your answer.

7. the number of bears that live in each of the national parks in Alaska

   a bar graph; One axis could show the number of bears, and the other axis could show the parks.

8. the number of visitors to Yellowstone National Park in August compared with the total number of summer visitors

   a circle graph; The circle represents all summer visitors.

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