

SECTION
7A

Ready to Go On? Skills Intervention
7-4 Analyzing Data Displays

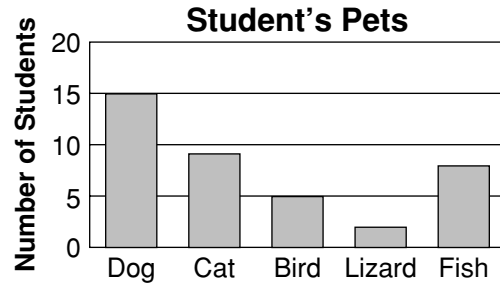
A **bar graph** uses vertical or horizontal bars to display data. A **circle graph** shows how a set of data is divided into parts. The entire circle displays 100% of the data. Each **sector**, or slice, represents one part of the data set. A **line graph** uses data points on a coordinate grid that are connected with line segments to show how numerical data changes over time.

Vocabulary
bar graph
circle graph
sector
line graph

Analyzing a Bar Graph

Use the bar graph to answer each question.

- A. About how many more students own a cat than own a lizard? _____
- B. Allison said that three times as many students own a dog than own a bird. Is her claim valid? Explain.



Analyzing a Circle Graph

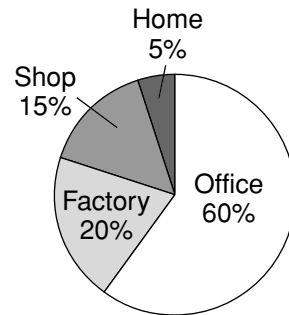
Forty students were surveyed about where their parents work. The circle graph shows the results. Use the circle graph to answer each question.

- A. How many students surveyed have parents who work at home?

5% of 40 = _____ • 40 Write 5% as a decimal.
= _____ students Multiply.

- B. How many students surveyed have parents who work in an office? _____

Where Parents Work

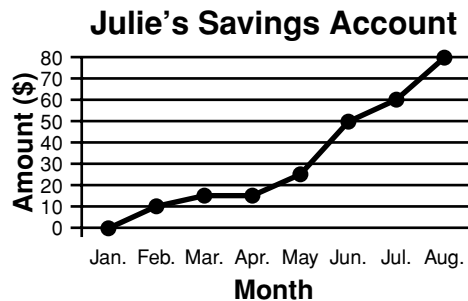


Analyzing a Line Graph

Use the line graph to answer each question.

- A. How many months from January to August did Julie have more than \$30 in her savings account?

- B. Between which two months did the amount in her account increase the most? _____



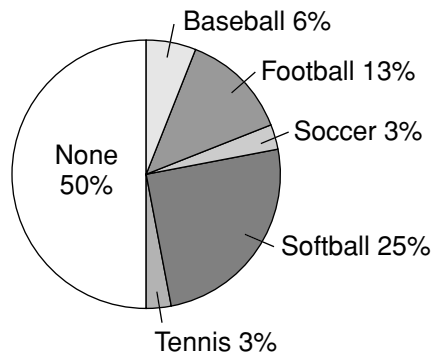
SECTION
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Ready to Go On? Problem Solving Intervention

7-4 Analyzing Data Displays

Marissa surveyed the 28 students in her social studies class to see how many of them play sports. The circle graph shows her results. Based on these results, Marissa claimed that about $\frac{1}{5}$ of the students surveyed play either baseball or football. Is her claim valid? Explain.

Students Who Play Sports



Understand the Problem

1. What is Marissa’s claim?

2. What are you asked to find?

Make a Plan

3. How can you find the percent of students surveyed who play either baseball or football?

4. Marissa claimed that about $\frac{1}{5}$ of the students surveyed play either baseball or football. $\frac{1}{5}$ is equal to what percent?

Solve

5. What percent of the students surveyed play baseball?
6. What percent of the students surveyed play football?
7. What percent of the students surveyed play baseball or football?
8. Is the percent you found in problem 7 close to the percent you wrote in problem 4?

Check

9. Does the sector of the graph representing the percent of students who play baseball and football appear to be about $\frac{1}{5}$ of the total circle?
