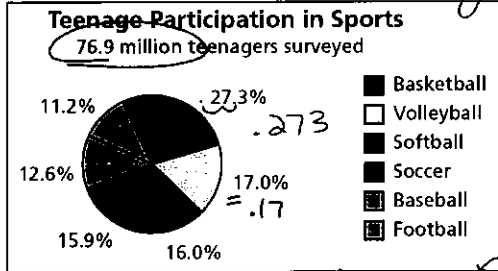


1-4 Circle Graphs

Day 5



Basketball: $76.9(.273) = 20.9937$
 Volleyball: $76.9(.17) \approx 13.1$ million
 Football: $76.9(.12) = 9.228$ million

Circle Graph

In a **Sector**, or **pie chart**, a visual shows how data is divided into categories that do not overlap. Each slice, is a percentage of the total number of data. The entire circle represents 100% of the data. **Key legend**, describes the data in each sector. To solve a circle graph problem, it helps to break it into small parts. This strategy is often called **solve a simpler problem**

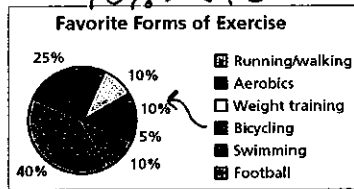
venn diagram

A survey was taken on [redacted] a sporting goods store concerning their favorite form of exercise. Use the circle graph for Exercises 1-4.

1. How many customers prefer bicycling? 10%

$80(.10) = 8$

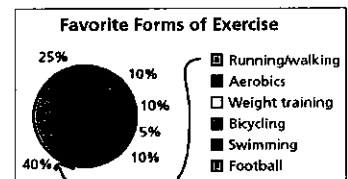
80



A survey was taken of 80 customers at a sporting goods store concerning their favorite form of exercise. Use the circle graph for Exercises 1-4.

How many customers prefer running/walking?

$80(.40) = 32$



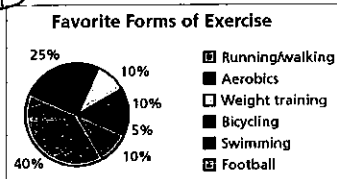
A survey was taken of 80 customers at a sporting goods store concerning their favorite form of exercise. Use the circle graph for Exercises 1-4.

1. How many customers prefer aerobics or ^{Swimming} weight training?

$80(.05) = 4$

$5\% \rightarrow .05$

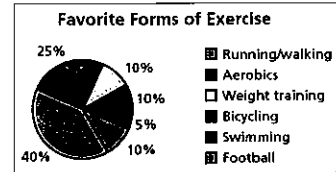
05



A survey was taken of 80 customers at a sporting goods store concerning their favorite form of exercise. Use the circle graph for Exercises 1-4.

1. What is the total percent of the sectors in the circle graph?

100%



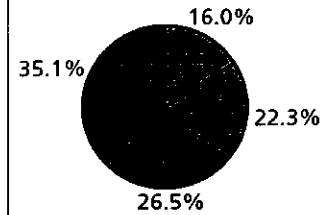
COMMUNITY SERVICE A youth group raised a total of \$1983 for a local homeless shelter. The group leader made a circle graph of the money earned but forgot to make a legend.

26.4% for each sector. 26.5%

- 5. The spaghetti dinner earned \$525. $\frac{525}{1983} \times 100$
- 6. The bake sale earned \$318. $\frac{318}{1983} \times 100 = 16.0\%$
- 7. The magazine sale earned \$697. $\frac{697}{1983} \times 100 = 35.1\%$
- 8. The car wash earned \$443. $\frac{443}{1983} \times 100 = 22.3\%$

$\frac{443}{1983} \times 100 = 22.3\%$
 99.9%

Fund-raising Events



Find the degrees:

Make a circle graph with the following data.

14. Baseball: 1776 people $\frac{1776}{4800} \times 360^\circ = 133.2^\circ$

15. Football: 1440 people $\frac{1440}{4800} \times 360^\circ = 108^\circ$

16. Hockey: 576 people $\frac{576}{4800} \times 360^\circ = 43^\circ$

17. Basketball: 1008 people $\frac{1008}{4800} \times 360^\circ = 76^\circ$

Total: 4800 $\frac{4800}{4800} \times 360^\circ = 360^\circ$

$\frac{\text{Part}}{\text{Total}} \times 360^\circ =$

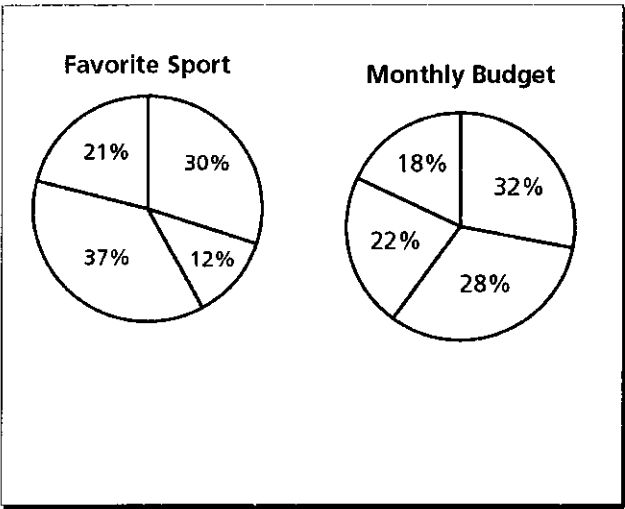
Make a circle graph with the following data.

10. Rent: \$800

11. Transportation: \$700

12. Food: \$550

13. Other: \$450



Complete OGT circle packet for points.