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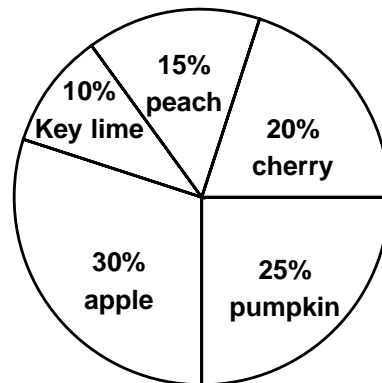# Use Data from Graphs to Solve Word Problems

Sometimes word problems require you to read the data from graphs. Graphs usually do one of three things:

- Graphs can show the same kind of data at different times or places.

- Graphs can show the different kinds of data that make up 100% of a group.
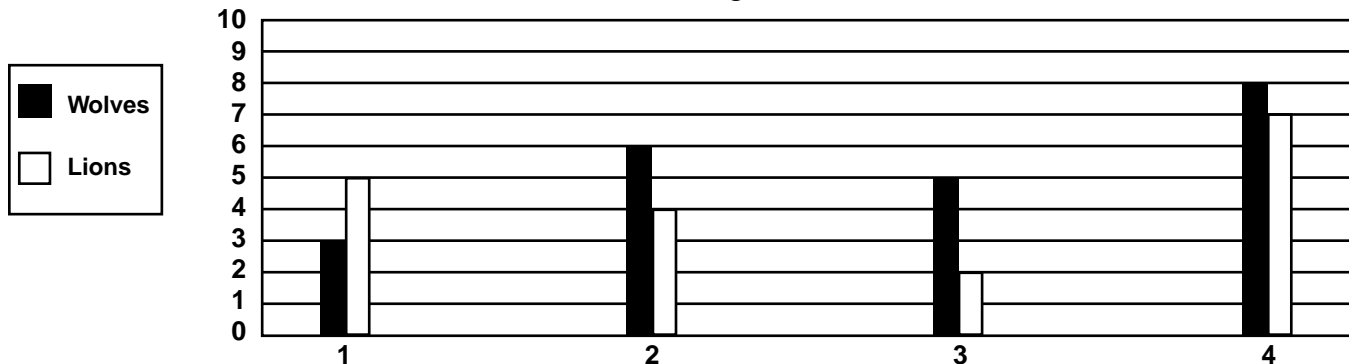
Baseball Ticket Sales

⚾ = 1,000 tickets

Sales

1996   1997   1998   1999   2000

Years

Sixth Grade Pie Survey

15% peach
10% Key lime
20% cherry
30% apple
25% pumpkin
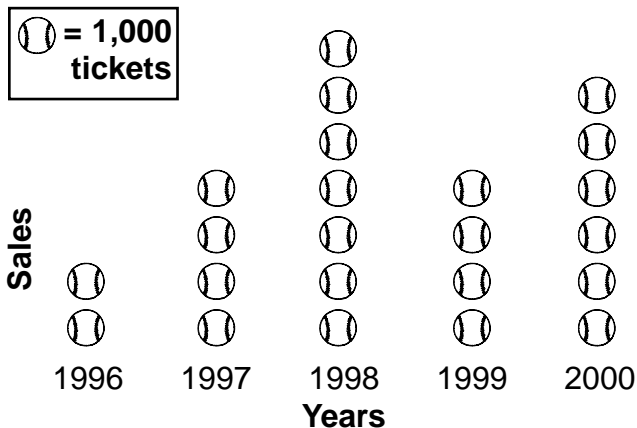
- Graphs can show different sets of data at the same time or place.

Scoring Statistics

■ Wolves
☐ Lions

When a word problem asks you about information taken from a graph, think of the graph as words turned into a picture. If you have trouble understanding the graph, imagine explaining it to someone else. Turn the picture back into words.

Directions: Use the bar graph to answer each question.

Cost of Entertainment

$25
$20
$15
$10
$5
$0

play   movie   concert   dance
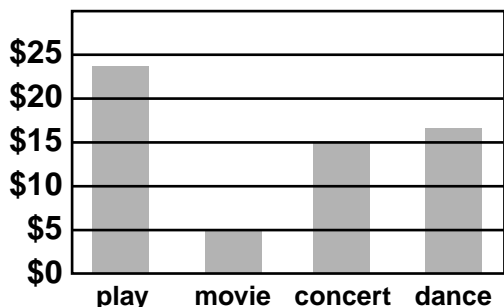
1. About how much does it cost to see a play? _____
2. Which activity is the most expensive? _____
3. Which activity is the least expensive? _____
4. Which activity costs less, a concert or a dance? _____
5. About how much more does it cost to go to a dance than to a concert? _____
6. If you saw a play, a movie, a concert, and a dance in one month, about how much money would you spend? _____

••••••••••••• # Use Data from Graphs to Solve Word Problems

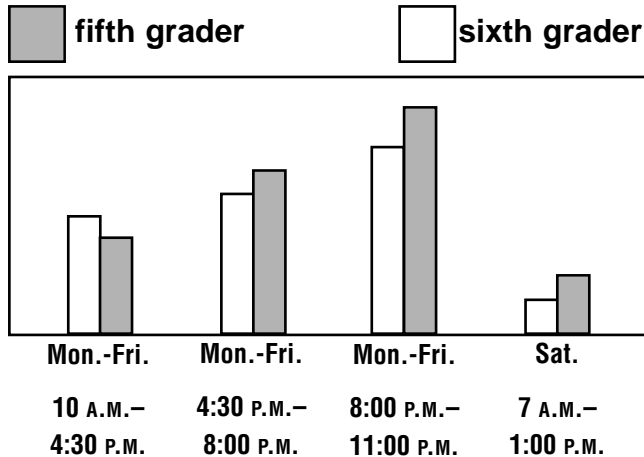**Directions:** Use the bar graph to answer each question.

Television Viewing Hours of Fifth and Sixth Graders

☐ **fifth grader**   ☐ **sixth grader**

Mon.-Fri.	**Mon.-Fri.**	**Mon.-Fri.**	**Sat.**
10 A.M.– 4:30 P.M.	4:30 P.M.– 8:00 P.M.	8:00 P.M.– 11:00 P.M.	7 A.M.– 1:00 P.M.

7. Do more fifth graders or sixth graders watch television on Saturday from 7 A.M. to 1 P.M.? _____

8. During which time period do fifth and sixth graders watch the greatest amount of television? _____

9. During which time period do fifth and sixth graders watch the least amount of television? _____

Directions: Use the pictograph below to answer the following questions.

This shows the number of drinks served in one day.

Grissom Cafeteria Drinks

☐ = 100 glasses   ☐ = 50 glasses

Drink	**Number of Glasses**
white milk	☐ ☐ ☐ ☐ ☐
chocolate milk	☐ ☐ ☐
orange juice	☐ ☐
apple juice	☐ ☐

10. How many glasses of white milk did the cafeteria serve? _____

11. How many glasses of orange and apple juice were served? _____

12. How many more glasses of orange juice than apple juice were served? _____

13. How many glasses of drinks were served in one day? _____

Directions: Use the pie chart below to answer the following questions.

Animals in the Local Neighborhood

geese 7%
parrots and canaries 12%
deer 10%
raccoons 9%
squirrels 12%
cats 18%
dogs 32%
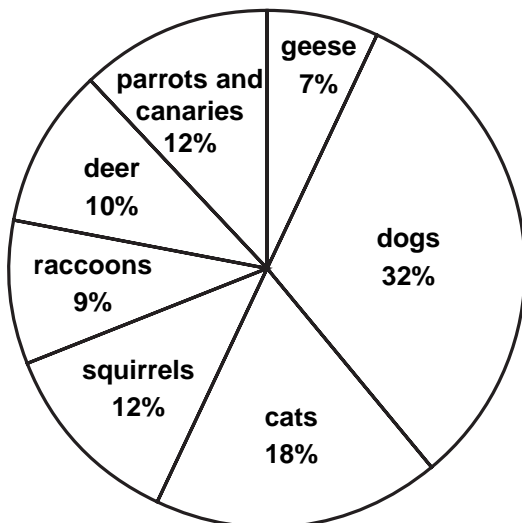
14. What percent of animals have wings? _____

15. What percent are house pets? _____

16. What percent have four legs? _____

17. What are the two most common wild animals in the neighborhood? _____

_____

18. If you add the squirrels, the deer, and the different types of birds together, are there more or fewer of them than dogs? _____