

Name \_\_\_\_\_

## Reading and Making a Bar Graph

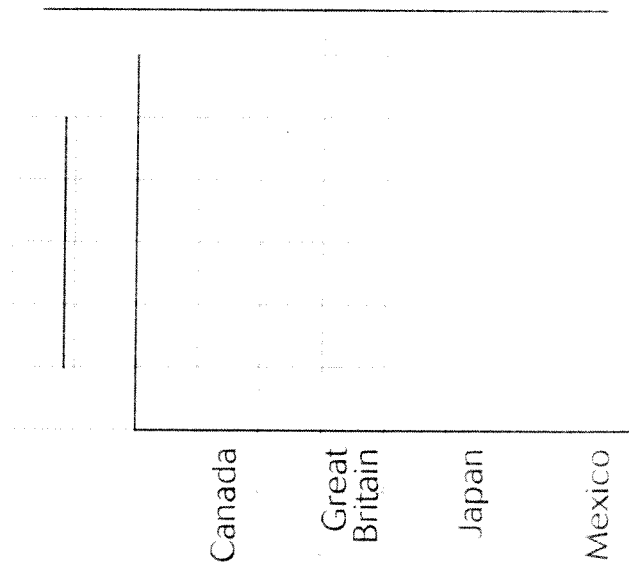
**Materials** colored pencils, markers, or crayons, grid paper.

Robert's class voted for their favorite country, not including the United States. The results are shown in the table.

Our Favorite Countries	
Country	Votes
Canada	8
Great Britain	4
Japan	3
Mexico	11

Make and use a bar graph of the data by answering 1 to 6.

- Write a title above the graph. Label the axes: Country and Votes.
- Complete the scale. Since the data go up to 11, make the scale by 2s.
- Draw a bar for each country. Since Canada got 8 votes, color 4 squares above Canada, up to the 8 mark. For Japan, color one and a half squares because 3 is halfway between 2 and 4.
- Which country got the least number of votes, that is, which has the shortest bar?  
\_\_\_\_\_
- Which country got the greatest number of votes, that is, which has the longest bar?  
\_\_\_\_\_
- Reasoning** Which bar is twice as long as the bar for Great Britain? What does that mean?



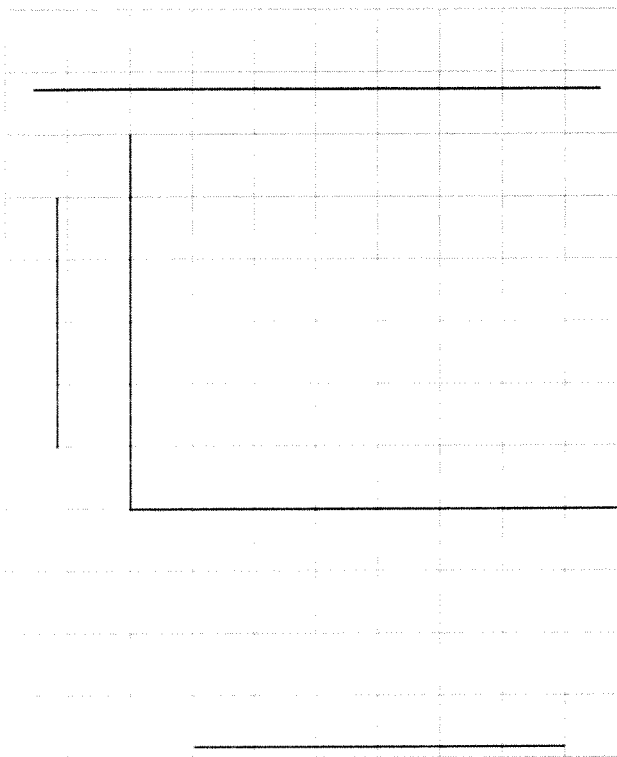
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**Reading and Making a Bar Graph (continued)**

Use the grid on the right for Exercises 7 to 9.

7. Draw a graph of the data in the table.

<b>Cities We Want to See</b>	
<b>City</b>	<b>Votes</b>
Anaheim	5
Orlando	12
Chicago	2
Washington	7



8. Which city got the most votes?

\_\_\_\_\_

9. Did twice as many students vote for Orlando as voted for Washington?

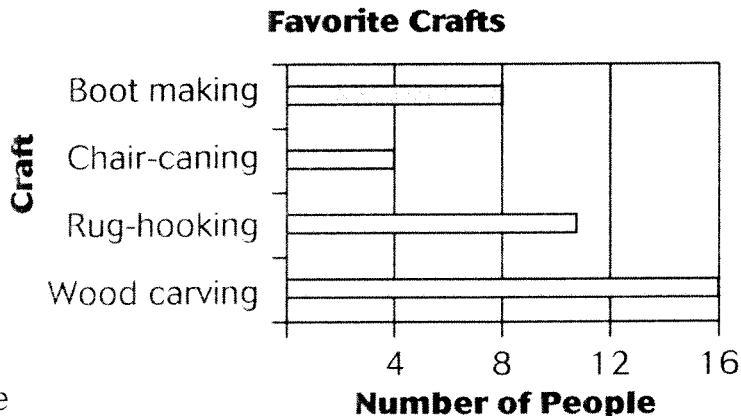
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Use the bar graph at the right to answer Exercises 10 to 12.

10. Which craft did most students say was their favorite?

\_\_\_\_\_

11. How many students chose boot making as their favorite craft demonstration?



12. How many more students chose wood carving than chose chair-caning as their favorite crafts?

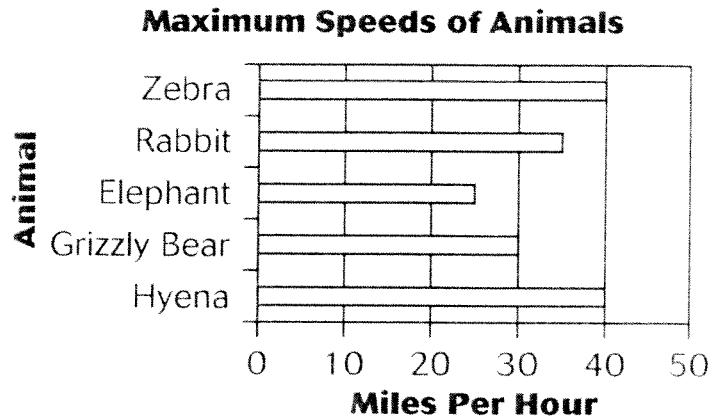
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## Interpreting Graphs

Use the bar graph at the right to answer 1 to 9.

1. What is this bar graph about?



The **scale** on a graph is the numbers used to describe the data.

2. The units used on this scale are miles per hour. What numbers does the scale use?

\_\_\_\_\_

The **interval** of the scale is the number you skip count by.

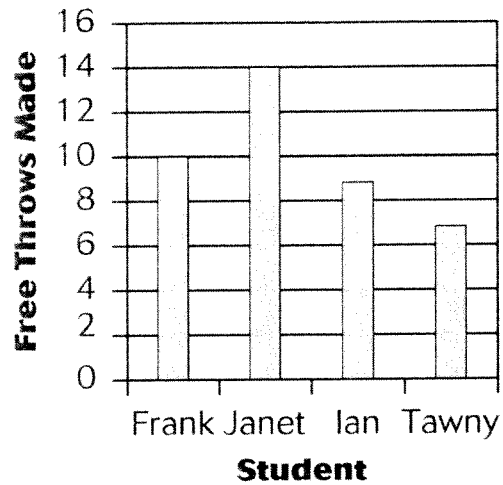
3. What is the interval of the scale? \_\_\_\_\_
4. Which animal has a maximum speed halfway between 20 and 30 miles per hour? \_\_\_\_\_
5. What number is halfway between 20 and 30? \_\_\_\_\_
6. What is the maximum speed of an elephant? \_\_\_\_\_ miles per hour
7. Which animal has a maximum speed of 35 miles per hour? \_\_\_\_\_
8. Which animal(s) has a maximum speed that is 15 miles per hour greater than an elephant? \_\_\_\_\_
9. **Reasoning** Do any of the animals in the graph have a speed that is twice as fast as the elephant? How do you know?

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**Interpreting Graphs** (continued)

For 10 to 13, use the graph on the right.

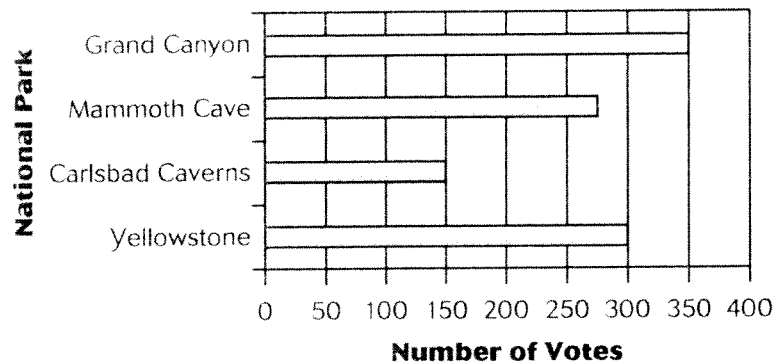
**Free Throw Competition**



- 10. What is the interval of the scale for this bar graph? \_\_\_\_\_
- 11. Which student made the most free throws? \_\_\_\_\_
- 12. How many free throws did Tawny make? \_\_\_\_\_
- 13. How many more free throws did Janet make than Ian? \_\_\_\_\_

For 14 to 18, use the graph on the right.

**National Park Visitation Poll**



- 14. What is the interval of the scale?  
\_\_\_\_\_
- 15. Which park received 275 votes?  
\_\_\_\_\_
- 16. Which park received twice as many votes as Carlsbad Caverns? \_\_\_\_\_
- 17. How many fewer votes did Carlsbad Caverns receive than the Grand Canyon? \_\_\_\_\_
- 18. **Reasoning** Which two parks received the closest number of votes? Explain how you know.