

# Exploring Probability

A bag contains purple and yellow cubes. Jon pulled a cube from the bag 20 times. He tallied the color of the cube and put it back each time. These are his results.

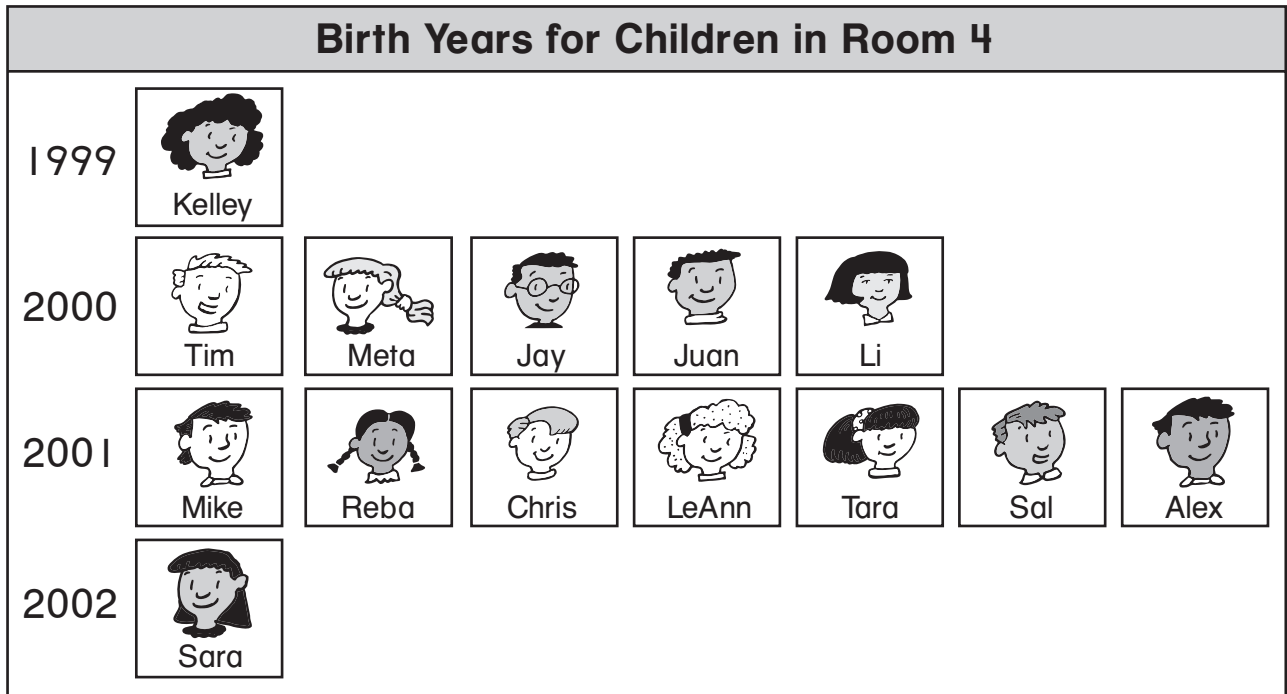


Purple	Yellow

- Which color do you think Jon is less likely to pull out next?  
\_\_\_\_\_
- Which color do you think Jon is more likely to pull out next?  
\_\_\_\_\_
- Which color probably has more cubes in the bag?  
\_\_\_\_\_
- Which color probably has fewer cubes in the bag?  
\_\_\_\_\_
- How could Jon change the cubes in the bag so yellow and purple are equally likely to be pulled out?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

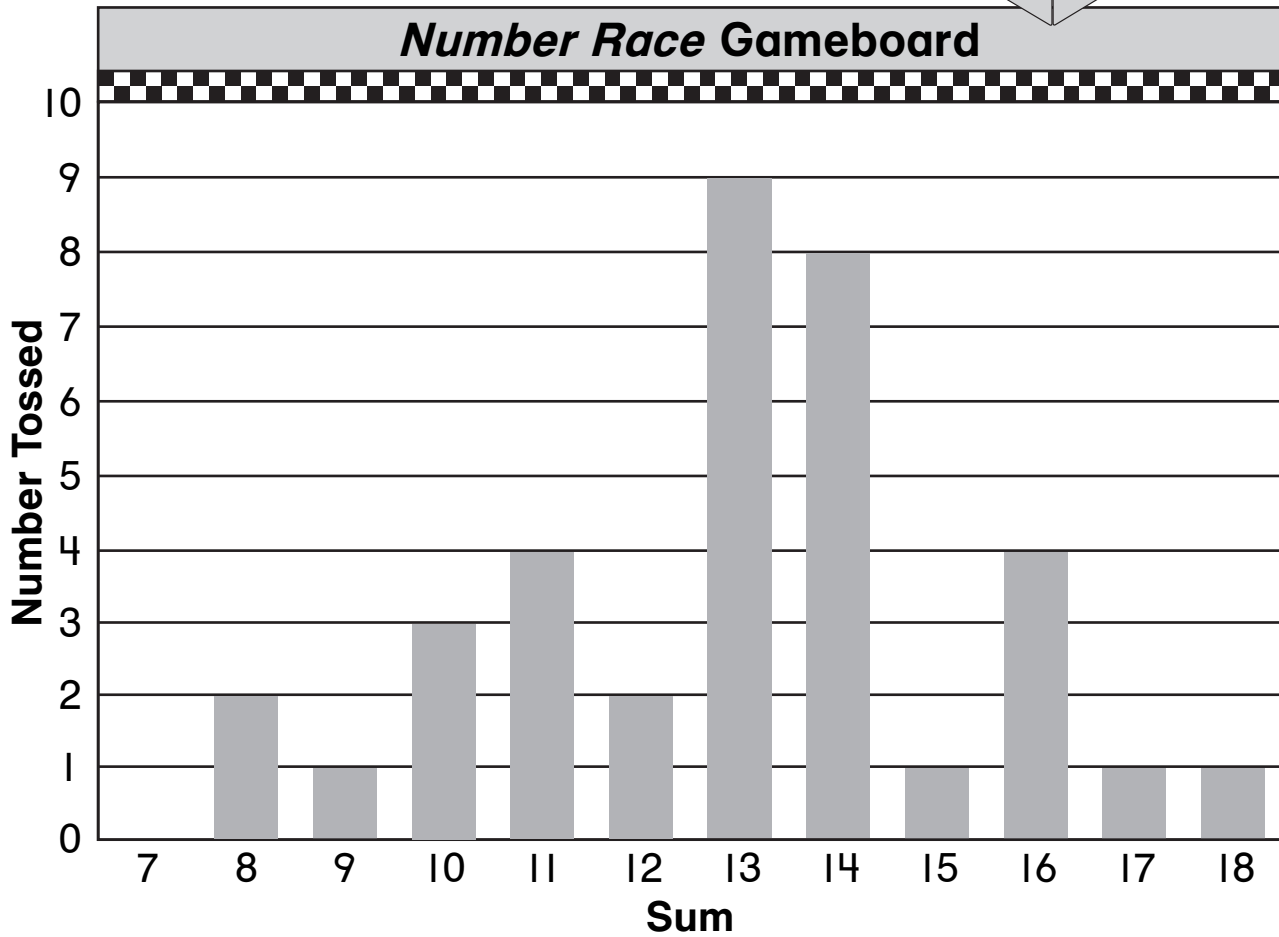
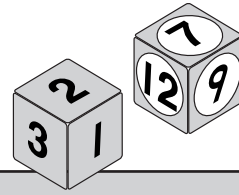
# Using Real-Object Graphs and Picture Graphs

The children in Room 4 made a picture graph showing the years they were born.



- \_\_\_\_\_ is the oldest child.
- The youngest child was born in the year \_\_\_\_\_.
- There were \_\_\_\_\_ children born in the year 2001.
- LeAnn was born in the year \_\_\_\_\_.
- There are \_\_\_\_\_ children in Room 4.
- Sara is about \_\_\_\_\_ years younger than Meta.
- There were \_\_\_\_\_ more children born in 2001 than in 2002.

# Using Bar Graphs to Investigate Probability



1. Which sum was tossed the most times? \_\_\_\_\_
2. Which sums were tossed the fewest times? \_\_\_\_\_
3. If the game continues, is it likely or unlikely that 18 will win the race? \_\_\_\_\_
4. If the number cubes are tossed again, which sum are you most likely to get? \_\_\_\_\_

# Making and Using Bar Graphs

1. Count the length of the words in this sentence.

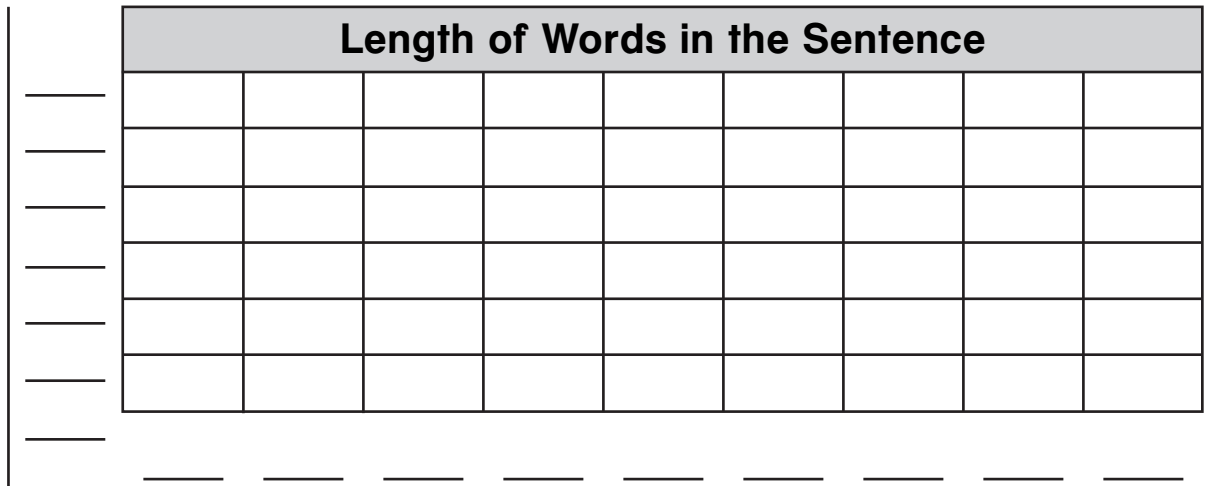
Oh, give me a home where the buffalo roam,  
where the deer and the antelope play.

Word	Length
Oh	2
give	4
me	2
a	
home	

Word	Length
where	
the	
buffalo	
roam	
where	

Word	Length
the	
deer	
and	
the	
antelope	
play	

2. Make a bar graph for the length of words. Label the graph.



# Making and Using Pictographs

1. Use the tally table to make a pictograph. Choose a symbol and make a key.

Tacos Served Last Week	
Day	Tally
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	

Tacos Served Last Week											
Tuesday											
Wednesday											
Thursday											
Friday											
Saturday											

**Key:** Each \_\_\_\_\_ stands for \_\_\_\_\_ tacos.

2. Write your own sentence about the pictograph.

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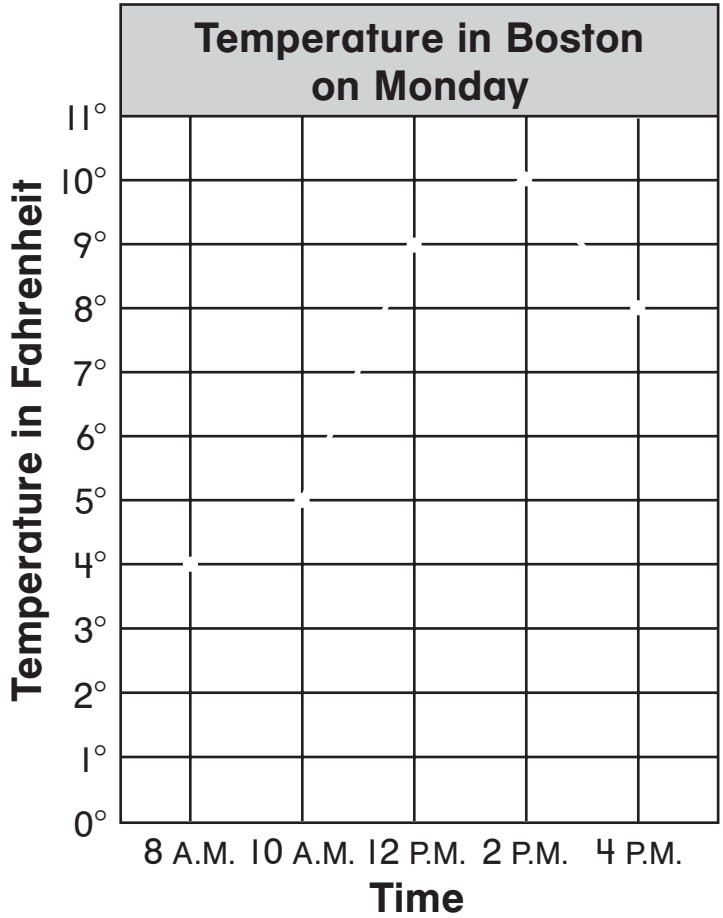


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# Graphing Change Over Time

1. This table shows how the temperature in Boston changed on one cold winter day. Make a line graph of the data.

Temperature in Boston on Monday	
Time	Temperature in Fahrenheit
8:00 A.M.	4°
10:00 A.M.	5°
12:00 P.M.	9°
2:00 P.M.	10°
4:00 P.M.	8°



2. What do you think the temperature will be at 6:00 P.M.? Explain.

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