theoretical and experimental probability

**a.** Find the experimental probability of landing on green.

**b.** Find the experimental probability of landing on red.

**c.** If the spinner is spun 50 more times,   
how many of these times would you expect the pointer to land on blue?

**b.** Out of 500 people surveyed, how many

would you expect considered reading books or surfing the Internet as the best entertainment value?

**c.** Out of 300 people surveyed, is it reasonable to expect that 30 considered watching television as the best entertainment value? Why or why not?

**3.** A spinner marked with four sections blue, green, yellow, and red was spun 100 times. The results are shown in the table.

**a.** What is the probability that someone in the survey considered reading books or surfing the Internet as the best entertainment value? Write the probability as a fraction.

**a.** Find the experimental probability of landing on a 2.

**b.** Find the experimental probability of *not* landing on a 6.

**c.** Compare the experimental probability you found in part a to its theoretical probability.

**d.** Compare the experimental probability you found in part b to its theoretical probability.

1

Watching Television

9

Surfing the Internet

10

Going to Movie Theaters

10

Renting Movies

22

Reading Books

48

Playing Interactive Games

**Percent**

**Type of Entertainment**

**Best Entertainment Value**

68

Red

8

Yellow

10

Green

14

Blue

**Frequency**

**Section**

**2.** **ENTERTAINMENT** Use the results of the survey in the table shown.

**1.** A number cube is rolled 24 times and lands on 2 four times and on 6 three times.