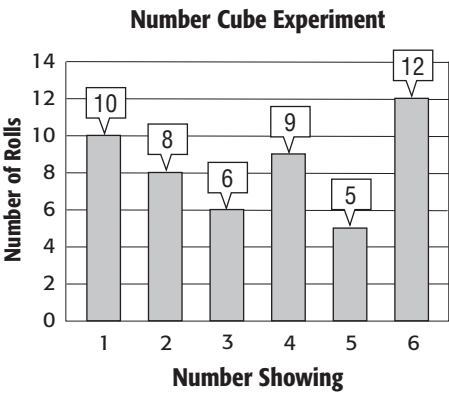


# Lesson 2 Skills Practice

## Theoretical and Experimental Probability

1. A number cube is rolled 50 times and the results are shown in the graph below.



- a. Find the experimental probability of rolling a 2.  

$\frac{8}{50}$
- b. What is the theoretical probability of rolling a 2?  

$\frac{1}{6}$
- c. Find the experimental probability of *not* rolling a 2.  

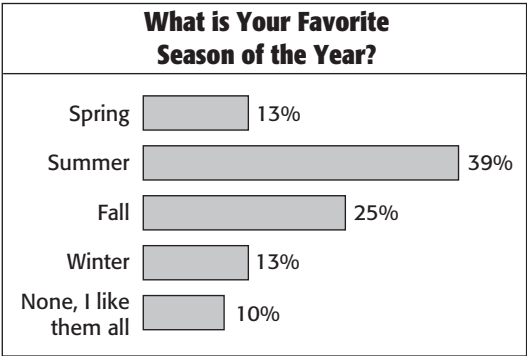
$\frac{42}{50}$  it will not be 2
- d. What is the theoretical probability of *not* rolling a 2?  

$\frac{5}{6}$
- e. Find the experimental probability of rolling a 1.  

$\frac{10}{50}$

2. **SEASONS** Use the results of the survey at the right.

- a. What is the experimental probability that a person’s favorite season is fall? Write the probability as a fraction.  $\frac{25}{100}$
- b. Out of 300 people, how many would you expect to say that fall is their favorite season?



- $75$  people would chose fall
- c. Out of 20 people, how many would you expect to say that they like all the seasons?  

$\frac{10}{100}$   
2 people like all seasons
  - d. Out of 650 people, how many more would you expect to say that they like summer more than they like winter?

$\frac{39}{100}$

$\frac{13}{100}$