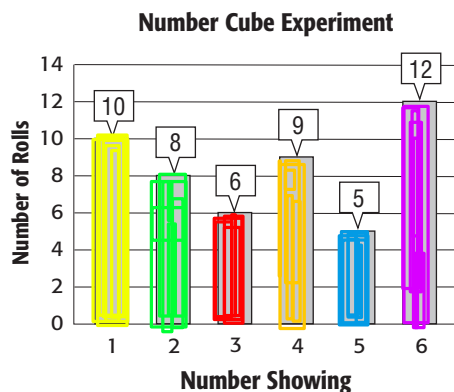


Lesson 2 Skills Practice

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. $\frac{4}{25}$
- b. What is the theoretical probability of rolling a 2? $\frac{1}{6}$
- c. Find the experimental probability of *not* rolling a 2. $\frac{21}{25}$
- d. What is the theoretical probability of *not* rolling a 2? $\frac{5}{6}$
- e. Find the experimental probability of rolling a 1. $\frac{1}{5}$

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.

$\frac{1}{4}$

- b. Out of 300 people, how many would you expect to say that fall is their favorite season?

75

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

2

- d. Out of 650 people, how many more would you expect to say that they like summer more than they like winter?

170

