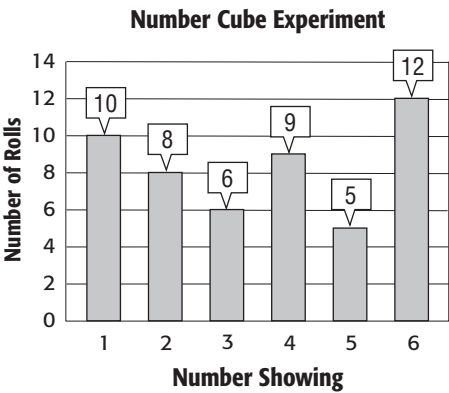


Lesson 2 Skills Practice

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.
$$\frac{8}{50} = \frac{4}{25}$$
- b. What is the theoretical probability of rolling a 2?
$$\frac{6}{50}$$
- c. Find the experimental probability of *not* rolling a 2.
$$\frac{42}{50}$$
- d. What is the theoretical probability of *not* rolling a 2?
$$\frac{40}{50}$$
- e. Find the experimental probability of rolling a 1.
$$\frac{10}{50}$$

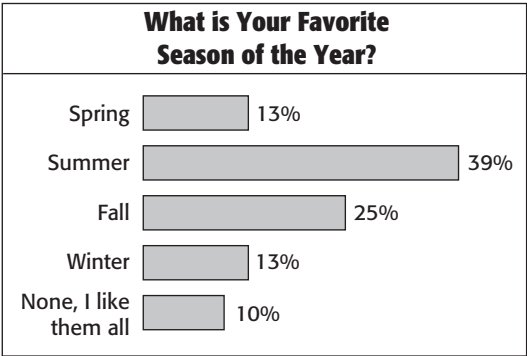
2. SEASONS Use the results of the survey at the right.

- a. What is the experimental probability that a person’s favorite season is fall? Write the probability as a fraction. $\frac{1}{4}$
- 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?

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