

Chapter 6 **Review**

1. The probability of an event is 15%. Describe the likelihood of the event.

unlikely

2. You randomly draw a marble 50 times from a bag and record its color. You draw a blue marble 3 times. A yellow marble 25 times. A green marble 22 times. What is the experimental probability that the next marble will be blue?

$$\frac{3}{50} = 6\%$$

3. There are 6 red marbles and 11 orange marbles in a bag. You randomly choose one of the marbles. What is the probability of choosing a red marble?

red \rightarrow $\frac{6}{17} =$ about 35%

total \rightarrow 17
of red and orange

4. Use the table to predict the number of times you will spin 4 when you spin the spinner 100 times. * Set up a proportion *

Spinning a Spinner						
Number spun	1	2	3	4	5	6
Times spun	11	8	10	7	7	7

$$\frac{7}{50} = \frac{x}{100}$$

x = 14 times

add all the times spun

5. A bag contains all letters of the alphabet, with no letters repeating. What are the favorable outcomes of choosing a vowel?

list the vowels

A, E, I, O, U

6. In how many ways can choosing a vowel occur from the problem above?

answer is a #

5 ways

Chapter 6 **Test A** (continued)

7. You roll a six-sided number cube. What is the theoretical probability of rolling a number greater than 5? *(How many 5s are on a dice? Over how many total numbers on a dice?)*

$\frac{1}{6} = \text{about } 17\%$

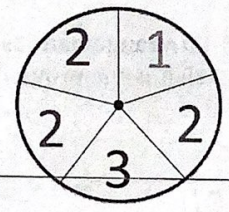
8. Describe the likelihood of your soccer team winning 100% of the games.

Certain

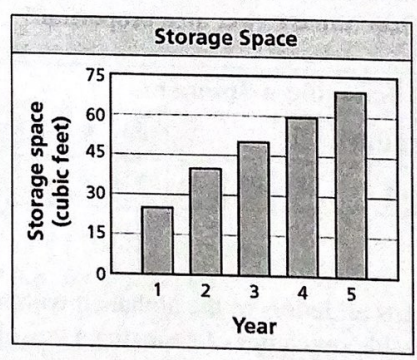
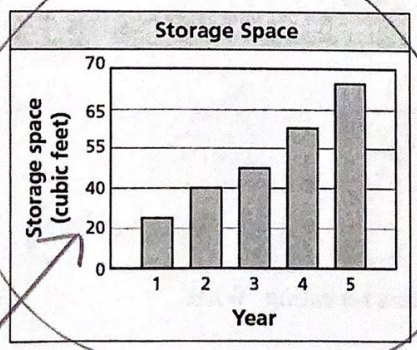
9. Find the sample space of the spinner.

list all possible outcomes

2, 2, 3, 2, 1



10. Which data display is misleading and WHY?



the numbers are not evenly spaced

11. The probability of a thunderstorm being located within 5 miles of your house sometime tomorrow is $\frac{9}{10}$. Describe the likelihood.

$\frac{9}{10} = 90\%$ likely