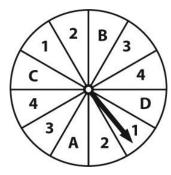
Find each probability.

- 1. Salene rolls a 1–6 number cube two times. What is the probability she will roll a 6 both times?
- 2. Kalie rolls a 1-6 number cube two times. What is the probability she will roll an even number both times?
- $\frac{1}{4}$
- 3. Jamar rolls a 1–6 number cube three times. What is the probability he will roll an even number, then a 6, then a 4?

For Problems 4–7, find the probability of spinning

4. a number followed by a letter 5. a 2, then a letter, then an even number

- 6. a letter, then an odd number, then a 4 7. a 4, then a C



8. A card is randomly selected from a deck and not replaced. The deck is shuffled, and then a second card is drawn. Let A be selecting a 2 on the first draw. Let B be selecting a 2 on the second draw. What is the probability that a 2 will be drawn both times?

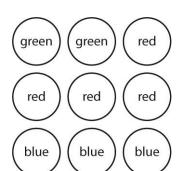
a.
$$P(A) = \frac{4}{52}$$

b.
$$P(B|A) = \frac{3}{51}$$

a.
$$P(A) = \frac{4}{52}$$
 b. $P(B|A) = \frac{3}{51}$ c. $P(A \text{ and } B) = \frac{4}{52} \times \frac{3}{51} = \frac{1}{221}$

A bag contains balls with the colors shown at the right. Find the probability for randomly selecting balls, one after the other, without replacing them.

- 9. blue and then red
- 10. blue and then blue
- 11. green and then blue
- 12. blue and then red
- 13. red and then red
- 14. green and then green



There are 3 apples, 4 oranges, and a pear in a bag. Determine each probability.

- 15. You select an orange and then a pear at random without replacement.
- $\frac{1}{14}$
- 16. You select an apple and then a pear at random without replacement.

17. You select an orange, then an apple, and then a pear at random without replacement.

28

18. You select an apple, then an orange, and then another apple without replacement.

 $\frac{-}{14}$