Chapter 15 Practice Test: Compound Probability

11. You have 160 songs on your MP3 player. The probability of randomly choosing a rock song is 30%. How many of the songs on your MP3 player are *not* rock songs?

A game has a deck of cards with 10 red cards, 4 blue cards, and 2 yellow cards. You randomly choose two cards. Find the probability of choosing the given cards.

12. two red cards

13. a blue card and a yellow card

Use the Fundamental Counting Principle to find the total number of possible outcomes.

9.

Shirts	
Style	Short-Sleeved, Long-Sleeved, Sweatshirt
Size	Small, Medium, Large, Extra Large

10.

Sports	
Location	Gym, Park, Beach
Activity	Volleyball, Soccer, Frisbee, Flag-Football, Running, Bike Riding

You roll a number cube twice. Find the probability of the event.

11. Rolling a 4 then an even number

12. Rolling a 3 then a 3

13. Rolling a number less than 1 and then a number less than 2

You spin the spinner twice. Find the probability of the event.

14. Spinning a 3 then a 4

15. Spinning a 2 then a number greater than 2

16. Describe the likelihood of spinning an odd number then an even number.

17. Your bike lock has 4 digits numbered 0 to 9. Find the total number of possible combinations for the lock.

18. Your drawer contains 6 black socks and 8 white socks. You randomly choose two socks. What is the probability that both socks are black?

19. A bag contains 26 tiles with letters A through Z. Find the probability of drawing two vowels with replacement. Find the probability of drawing two vowels without replacement. Round your answers to the nearest thousandth. Which event is independent? Which event is dependent?

14. The cooler contains 10 grape juice bottles and 15 cranberry juice bottles. You randomly choose two bottles. What is the probability that both bottles are cranberry juice?

15. You flip a coin and you roll a number cube. What is the probability that you flip heads and roll a number less than 3?