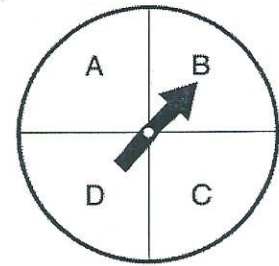


8-4

Skills Practice

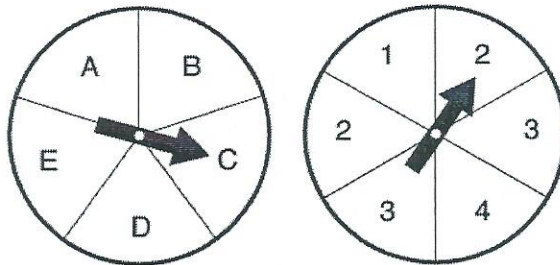
Probability of Composite Experiments

For Exercises 1–6, a number cube is rolled and the spinner at the right is spun. Find each probability.



1. $P(1 \text{ and } A)$
2. $P(\text{odd and } B)$
3. $P(\text{prime and } D)$
4. $P(\text{greater than } 4 \text{ and } C)$
5. $P(\text{less than } 3 \text{ and consonant})$
6. $P(\text{prime and consonant})$
7. What is the probability of spinning the spinner above 3 times and getting a vowel each time?
8. What is the probability of rolling a number cube 3 times and getting a number less than 3 each time?

Each spinner at the right is spun. Find each probability.



9. $P(A \text{ and } 2)$
10. $P(\text{vowel and even})$
11. $P(\text{consonant and } 1)$
12. $P(D \text{ and greater than } 1)$

There are 3 red, 1 blue, and 2 yellow marbles in a bag. Once a marble is selected, it is not replaced. Find each probability.

13. $P(\text{red and then yellow})$
14. $P(\text{blue and then yellow})$
15. $P(\text{red and then blue})$
16. $P(\text{two yellow marbles})$
17. $P(\text{two red marbles in a row})$
18. $P(\text{three red marbles})$

The face cards are removed from a standard deck of 52 cards, and the rest are set aside. Two cards are drawn at random from the face cards. Once a card is selected, it is not replaced. Find each probability.

19. $P(2 \text{ queens})$
20. $P(\text{jack and then king})$
21. $P(\text{black jack and then red queen})$
22. $P(\text{two black cards})$
23. $P(\text{black card and then red king})$
24. $P(\text{black jack and then black card})$