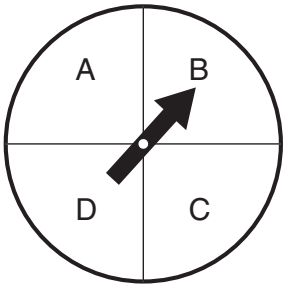
NAME Natalee Costa DATE 5/7/21 PERIOD 4

Lesson 7 Skills Practice

Independent and Dependent Events

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



1. P(1 and A) =1/24

2. P(odd and B) =1/24

3. P(prime and D) =1/24

4. P(greater than 4 and C) =1/24

5. P(less than 3 and consonant) =1/24

6. P(prime and consonant) =1/24

7. What is the probability of spinning the spinner above 3 times and getting a vowel each time? 1/3

8. What is the probability of rolling a number cube 3 times and getting a number less than 3 each time? 3/2

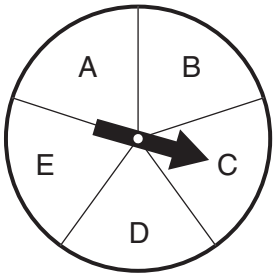
Each spinner at the right is spun. Find each probability.

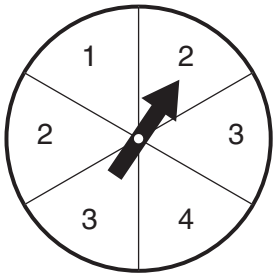
9. P(A and 2) =2/20

10. P(vowel and even) =1/24

11. P(consonant and 1) =1/24

12. P(D and greater than 1) =2/16





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(red and then yellow) =6/30

14. P(blue and then yellow) =2/30

15. P(red and then blue) =3/30

16. P(two yellow marbles) =2/30

17. P(two red marbles in a row) 6/30

18. P(three red marbles) =6/120

GAMES There are 13 yellow cards, 6 blue, 10 red, and 8 green cards in a stack of cards turned face down. Once a card is selected, it is not replaced. Find each probability.

19. P(2 blue cards) =30/1,332

20. P(2 red cards) =90/1,332

21. P(a yellow card and then a green card) =104/1,332

22. P(a blue card and then a red card) =60/1,332

23. P(two cards that are *not* red) =104/1,332

24. P(two cards that are neither red or green) 78/1,332