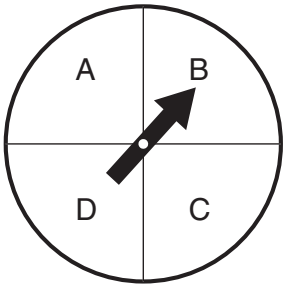
NAME _____ DATE _____ PERIOD _____

Lesson 7 Skills Practice

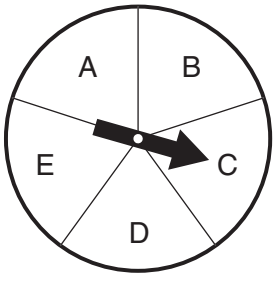
Independent and Dependent Events

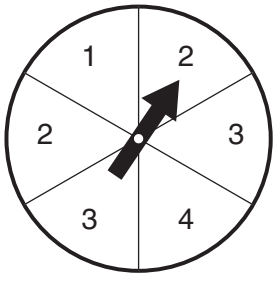
For Exercises 1–6, a number cube is rolled and the spinner at the right is spun. Find each probability.



1. *P*(1 and A) $\frac{1}{24}$
2. *P*(odd and B) $\frac{1}{8}$
3. *P*(prime and D) $\frac{1}{8}$
4. *P*(greater than 4 and C) $\frac{1}{12}$
5. *P*(less than 3 and consonant) $\frac{1}{4}$
6. *P*(prime and consonant) $\frac{3}{8}$
7. What is the probability of spinning the spinner above 3 times and getting a vowel each time? $\frac{1}{64}$
8. What is the probability of rolling a number cube 3 times and getting a number less than 3 each time? $\frac{1}{27}$

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





9. *P*(A and 2) $\frac{1}{15}$
10. *P*(vowel and even) $\frac{1}{5}$
11. *P*(consonant and 1) $\frac{1}{10}$
12. *P*(D and greater than 1) $\frac{1}{6}$

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) $\frac{1}{5}$
14. *P*(blue and then yellow) $\frac{1}{15}$
15. *P*(red and then blue) $\frac{1}{10}$
16. *P*(two yellow marbles) $\frac{1}{15}$
17. *P*(two red marbles in a row) $\frac{1}{5}$
18. *P*(three red marbles) $\frac{1}{20}$

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) $\frac{5}{222}$
20. *P*(2 red cards) $\frac{5}{74}$
21. *P*(a yellow card and then a green card) $\frac{26}{333}$
22. *P*(a blue card and then a red card) $\frac{5}{111}$
23. *P*(two cards that are *not* red) $\frac{39}{74}$
24. *P*(two cards that are neither red or green) $\frac{19}{74}$