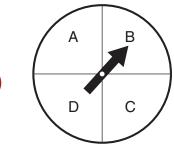
## **Lesson 7 Skills Practice**

## 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.**  $P(1 \text{ and } A) \frac{1}{6} \frac{1}{4} \frac{1}{24}$  **2.**  $P(\text{odd and } B) \frac{1}{8}$  **3.**  $P(\text{prime and } D) \frac{4}{6} \frac{1}{9}$  **4.**  $P(\text{greater than 4 and C}) \frac{2}{6} = \frac{1}{2}$

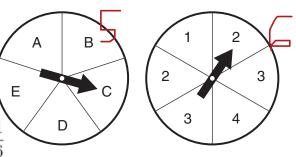




- consonant)  $\frac{3}{12} = \frac{1}{4}$
- **5.** P(less than 3 and consonant) **6.** P(prime and consonant)
- 7. What is the probability of spinning the spinner above 3 times and getting a vowel each time?
- **8.** What is the probability of rolling a number cube 3 times and getting a number less than 3 each time? 1

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

- **9.**  $P(A \text{ and } 2) \frac{1}{15}$
- **10.**  $P(\text{vowel and even}) \frac{2}{5} \cdot \frac{3}{6} \cdot \frac{3}{15} = \frac{1}{5}$  **11.**  $P(\text{consonant and 1}) \cdot \frac{1}{6} \cdot \frac{1}{10}$
- **12.**  $P(D \text{ and greater than 1}) \frac{1}{5} \frac{5}{6} \frac{5}{30} = \frac{1}{6}$



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

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) 5
- **21.** P(a yellow card and then a green card)  $^{26}$
- **23.** *P*(two cards that are *not* red)
  - 74

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- **20.** *P*(2 red cards)
- **22.** *P*(a blue card and then a red card)
- **24.** P(two cards that are neither)red or green)

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