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## 13-5 Practice <br> Probabilities of Independent and Dependent Events

Determine whether the events are independent or dependent. Then find the probability.

1. From a bag of 5 red and 6 green marbles, a red marble is drawn and not replaced. Then a green marble is drawn.
2. In a game, you roll an odd number on a die and then spin a spinner with 6 evenly sized spaces numbered 1 to 6 and get an even number.
3. A card is randomly chosen from a standard deck of 52 cards then replaced, and a second card is then chosen. What is the probability that the first card is the ace of hearts and the second card is the ace of diamonds?

## Find each probability.

4. A die is tossed. If the number rolled is greater than 2 , what is the probability that the number rolled is 3 ?
5. A black shoe is selected at random from a bin of 6 black shoes and 4 brown shoes and not replaced.

What is the probability that a second shoe selected will be black?
6. A spinner with 12 evenly sized sections and numbered 1 to 12 is spun. What is the probability that the number spun is 12 given that the number is even?
7. GAME In a game, a spinner with 8 equally sized sections numbered 1 to 8 is spun and a die is tossed.

What is the probability of landing on an odd number on the spinner and rolling an even number on the die?
8. APPROVAL A survey found that 8 out of 10 parents approved of the new principal's performance. If 4 parents' names are chosen, with replacement, what is the probability they all approve of the principal's performance?

