

Skills

- **Lesson 10-1** Draw a tree diagram to find the total number of outcomes.
 1. You flip a coin three times.
 2. You roll a number cube. Then you toss a coin.

- **Lesson 10-2** A jar contains 2 red, 4 yellow, 3 green, and 5 blue marbles. You select a marble without looking. Find each probability.
 3. $P(\text{yellow})$
 4. $P(\text{green})$
 5. $P(\text{red or blue})$
 6. $P(\text{red, green, or blue})$

- **Lesson 10-3** Find the experimental probability that each person wins.
 7. Yelena won 168 of 196 games.
 8. Chang played a game 43 times and did not lose a game.

- **Lesson 10-4** The probability of winning a game is 80%. How many times should you expect to win if you play the following number of times?
 9. 4
 10. 10
 11. 30
 12. 55
 13. 125
 14. 520

Write and solve a proportion to make the prediction.

15. In a school of 2,037 students, 500 were asked to name their favorite fruit. Apples were named by 325 students. Predict how many of the 2,037 students would name apples as their favorite fruit.
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- **Lesson 10-5** A bag contains 2 red, 6 blue, and 2 green marbles. Marbles are drawn twice with replacement. Find the probability of each compound event.
 16. blue, then red
 17. both blue
 18. both not green

Word Problems

- **Lesson 10-1**
 19. A car dealership has 9 different models of cars in 6 different colors for you to choose from. How many choices do you have?