## Chapter 9 Quiz Study Guide

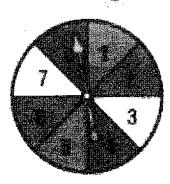
Name \_\_\_\_\_

Date \_\_\_\_\_ Core \_\_\_\_

Use the spinner to find each probability. Write your answer as a fraction, percent, and decimal.



- 2. P(odd number)
- 3. P(1, 3, or 6)
- 4. P(negative number)

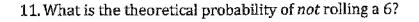


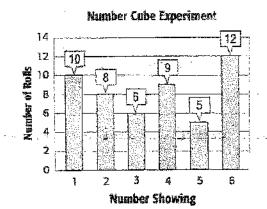
A package of balloons contains 1 red, 6 yellow, and 3 blue. Suppose you choose one balloon at random. Find the probability of each event. Write your answer as a fraction, percent, and decimal.

- 5. P(yellow)
- 6. P(not blue)
- 7. P(red or yellow)

A number cube is rolled 50 times. The results are shown in the graph below.

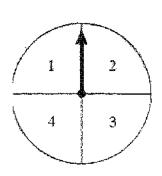
- 8. Find the experimental probability of rolling a 5.
- 9. What is the theoretical probability of rolling a 5?
- 10. Find the experimental probability of not rolling a 6.





- 12. The daily special at the House of Pies offers a choice of apple pie, cherry pie, or blueberry pie and a choice of coffee, tea, milk or juice.
  - a. Use a tree diagram to find the sample space of each compound event.

- b. Determine the total number of possible outcomes.
- c. Find the probability of choosing a tray with apple pie and a glass of juice.
- 13. The spinner is spun and a coin is tossed.
  - a. Use a tree diagram to find the sample space of each compound event.



- b. Determine the total number of possible outcomes.
- c. Find the probability of landing on an even number and heads.

. 1.	4. A sporting goods store sells ball caps in four sizes: S, M, L, and XL. Each hat is available in 5 colors and can be purchased with or without a logo. <ul> <li>a. Determine the total number of possible outcomes.</li> </ul>
	b. Find the probability of choosing a small, black hat, without a logo.
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1!	5. Four coins are tossed.  a. How many total number of possible outcomes are there?
	b. Find the probability of landing on at least 2 tails.
10	6. A math quiz is made up of 5 multiple-choice questions, each with 4 possible answers. How many possible sets of answers are there?
13	7. Students at Midtown Middle School can choose their schedule from 3 math courses, 3 science courses, 2 social studies courses, and 2 art courses. Determine the number of possible schedules that include one course in each subject area.
18	8. A restaurant offers 6 appetizers, 4 salads, 8 entrees, and 5 desserts. Find the number of possible meals that include one item from each course.
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1	9. Jeff is picking out an outfit. He has four choices of shirts, three choices of pairs of shoes. How many total possible outfit choices does Jeff have?