

Name \_\_\_\_\_

Class \_\_\_\_\_

### Probability Quiz

<p>1. A dresser drawer contains one pair of socks with each of the following colors: blue, brown, red, white and black. Each pair is folded together in a matching set. You reach into the sock drawer and choose a pair of socks without looking. You replace this pair and then choose another pair of socks. What is the probability that you will choose the red pair of socks both times?</p>	<p>2. A coin is tossed and a single 6-sided die is rolled. Find the probability of landing on the head side of the coin and rolling a 3 on the die.</p>
<p>3. A card is chosen at random from a deck of 52 cards. It is then replaced and a second card is chosen. What is the probability of choosing a jack and then an eight?</p>	<p>4. A jar contains 3 red, 5 green, 2 blue and 6 yellow marbles. A marble is chosen at random from the jar. After replacing it, a second marble is chosen. What is the probability of choosing a green and then a yellow marble?</p>

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5. There are 3 math books, 4 science books, and 2 social studies books on a shelf. If a book is randomly selected, what is the probability of selecting a science book or a math book?

6. A die is rolled. What is the probability of rolling a 5 or a number greater than 3?

7. One tile with each letter of the alphabet is placed in a bag, and one is drawn at random. What is the probability of selecting a vowel or a letter from the word *equation*?

8. The eighth grade graduation party is being catered. The caterers offer 4 appetizers, 3 salads, and 2 main courses for each eighth grade student to choose for dinner. How many different meals can the eighth graders have? HINT: Use a tree diagram to solve

9. There are 32 students in my 8<sup>th</sup> grade math class. Of the 32 students, 24 like Soccer, and 20 like Baseball. How many students like both soccer and baseball? Use a Venn diagram to show your work.

10. Spin a spinner numbered 1 to 7, and toss a coin. What is the probability of getting an odd number on the spinner and a tail on the coin?