

Name \_\_\_\_\_

Date \_\_\_\_\_ Class \_\_\_\_\_

## Simple & Independent Probability Practice

(29)

1. 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 tails on the coin?
2. What is the probability that a card drawn at random from a deck of cards will be an ace?
3. A jar contains 6 red balls, 3 green balls, 5 white balls and 7 yellow balls. Two balls are chosen from the jar, with replacement. What is the probability that both balls chosen are green?
4. In Exercise 3, what is the probability of choosing a red and a yellow ball?
5. If a die is rolled once, determine the probability of rolling a 4.
6. Four cards are chosen from a standard deck of 52 playing cards with replacement. What is the probability of choosing 4 hearts in a row?
7. If Dan grabs one sock from a drawer containing 3 white socks, 4 blue socks, and 5 yellow socks, what is the probability that he will grab a white sock?
8. If a dice is rolled once, what is the probability that it will show an even number? An odd number?
9. 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 an eight?

PS 10. A dresser drawer contains one pair of socks of each of the following colors: blue, brown, red, white and black. Each pair is folded together in matching pairs. You reach into the sock drawer and choose a pair of socks without looking. The first pair you pull out is red -the wrong color. You replace this pair and choose another pair. What is the probability that you will choose the red pair of socks twice in a row?

11. If a dice is rolled once, what is the probability that it will show a prime number?

12. If a dice is rolled once, what is the probability that it will show a multiple of 3?

13. 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.

14. 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 a yellow marble?

15. A school survey found that 9 out of 10 students like pizza. If three students are chosen at random with replacement, what is the probability that all three students like pizza?

16. A bag contains 4 white counters, 6 black counters, and 1 green counter. What is the probability of drawing:

a) A white counter?

b) A black counter?

c) A green counter?

d) A white counter or a black counter?

e) A white counter or a green counter?