Independent and Dependent Events Name_____

Show all work for credit Date_____Period___

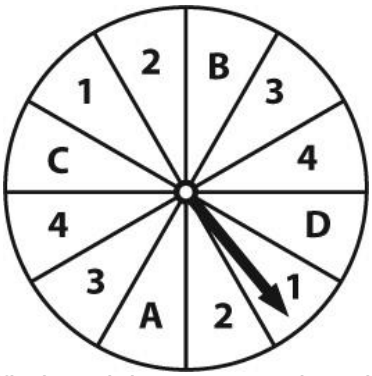
Find each probability.

1. Salene rolls a 1–6 number cube two times. What is the probability she will roll a 6 both times? _____

2. Kalie rolls a 1–6 number cube two times. What is the probability she will roll an even number both times? _____

3. Jamar rolls a 1–6 number cube three times. What is the probability he will roll an even number, then a 6, then a 4? _____

For Problems 4–7, find the probability of spinning



4. a number followed by a letter _____

5. a 2, then a letter, then an even number _____

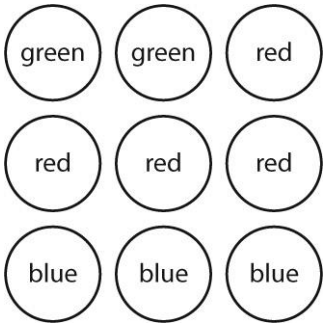
6. a letter, then an odd number, then a 4 _____

7. a 4, then a C _____

8. A card is randomly selected from a deck and not replaced. The deck is shuffled, and then a second card is drawn. Let *A* be selecting a 2 on the first draw. Let *B* be selecting a 2 on the second draw. What is the probability that a 2 will be drawn both times?

a. $P(A) =$ _____ b. $P(B|A) =$ _____ c. $P(A \text{ and } B) =$ _____

A bag contains balls with the colors shown at the right. Find the probability for randomly selecting balls, one after the other, without replacing them.



9. blue and then red _____

10. blue and then blue _____

11. green and then blue _____

12. red and then blue _____

13. red and then red _____

14. green and then green _____

There are 3 apples, 4 oranges, and a pear in a bag. Determine each probability.

15. You select an orange and then a pear at random without replacement. _____

16. You select an apple and then a pear at random without replacement. _____

17. You select an orange, then an apple, and then a pear at random without replacement. _____

18. You select an apple, then an orange, and then another apple without replacement. _____