

1. Suzy spun a spinner with the colors red, blue, green, purple and yellow on it. Each color is equally likely to be chosen. She then rolled a die.
  - a) What is the probability that the spinner landed on green and she rolled a 5?
  
  - b) What is the probability that the spinner didn't land on blue and she rolled an even number?
  
  - c) What is the probability that the spinner landed on a color with 6 letters in it and she rolled a number greater than 2?
  
2. Suzy is going to get her new license plates this weekend. The license plate is made up of six characters (letters or numbers). Assume all numbers and letters are equally likely to appear. Suzy is a big fan of the Rolling Stones. What is the probability that her plate will say 'STONES'?
  
  
  
  
  
  
  
  
  
  
3. Suzy got a bag of Skittles. Normally, there are 47 Skittles in a small bag. Unfortunately, 9 of the Skittles were replaced with M&Ms. If she randomly selects 12 pieces of candy, what is the probability that 4 of them will be M&Ms?
  
  
  
  
  
  
  
  
  
  
4. How many distinguishable permutations of the letters in 'Notre Dame de Sion' are there?
  
  
  
  
  
  
  
  
  
  
5. Suzy goes to Mr. Goodcents for lunch. She can choose from half and whole sandwiches on 4 different kinds of bread, 5 meats, 4 cheeses, 8 veggies, and 4 condiments. How many different sandwiches can she get if she wants a half on parmesan bread with 2 meats, 5 veggies, 2 cheeses and 2 condiments?
  
  
  
  
  
  
  
  
  
  
6. Suzy, Maggie and Sally go out for lunch. They all decide to get a sandwich from the restaurant's menu, which includes 9 different sandwiches. If they are equally likely to pick any sandwich, what is the probability that they all pick different sandwiches?

