

Name \_\_\_\_\_



### My Amazing Day

For your birthday this year, your Mom has offered to take you and your friends out for the day. First she will be taking you out to lunch; you can choose between pizza and chinese food. After lunch you have the choice of either going to the beach or Six Flags Amusement Park. Since you've been begging to adopt a wild animal for almost a year now, she has agreed, and you can choose between a zebra, hippopotamus, or lion.

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Make a tree diagram on the floor showing all the different possibilities for this day using all the pieces given to you in the ziplock bag. You may use a calculator.

- 1) How many different combinations are there for the day?
  
  
  
  
  
  
  
  
  
  
- 2) What is the probability of choosing pizza for lunch, the beach, and then adopting a lion? Express your answer as a decimal, fraction, and percent.
  
  
  
  
  
  
  
  
  
  
- 3) What is the probability of choosing chinese food, Six Flags, and then adopting an zebra? Express your answer as a decimal, fraction, and percent.
  
  
  
  
  
  
  
  
  
  
- 4) What is the probability of choosing a choosing a combination that includes going to Six Flags? Express your answer as a decimal, fraction, and percent.

5) What is the probability of choosing a choosing a combination that includes adopting a hippopotamus? Express your answer as a decimal, fraction, and percent.

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6) What is the probability of choosing a choosing a combination that includes having Chinese food for lunch? Express your answer as a decimal, fraction, and percent.

7) After adopting your wild pet, your Mom decides to take you for ice cream. You have a choice of chocolate, vanilla, or strawberry flavored ice cream. Use the Counting Principal to determine the number of combinations now?



8) Tell what you would have chosen for that day. Which lunch, day trip, animal, and ice cream? What are chances of your choices being the same as another random student's in this class? Express your answer as a fraction, decimal, and percent.