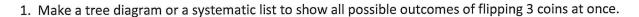
Stats Counting Techniques Quiz Review 2



- 2. Using the results of #1, find the number of each of the following outcomes:
 - a) exactly 2 tails
 - b) at least 2 tails
 - c) no more than 2 tails
- 3. The house salad at a restaurant can be topped with any or all of the following toppings: Croutons, 3 different dressings, bacon bits. How many choices are there?
- 4. When telephone area codes were first introduced, the only middle digits used were 0 and 1. Also, 0 was never used as a first digit. How many area codes were possible?
- 5. There are currently 31 teams in the NHL. In how many ways can the pennants of any 5 teams be hung up?
- 6. Explain 8!
- 7. Calculate each by hand. Show expansion, cancellations, etc.

- 8. Write out Pascal's Triangle through row 8. Explain how to find ${}^{5}C_{4}$ using Pascal's Triangle.
- 9. Expand $(2c + d)^6$ using the Binomial Theorem.