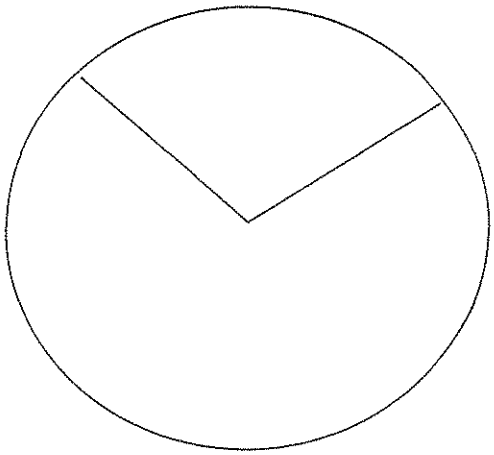
I'm Not So Sure Anymore
Activity 1 Notes Day 2

Ex. 1) Compare the theoretical probabilities of the events in the Apple Lottery with the experimental probabilities you found.

Ex. 2) How do the pair of numbers you selected for your Apple Lottery ticket affect the theoretical probability of winning each type of apple?

Ex. 3) Judging from the theoretical probabilities, how many apples of each color do you think you would win after playing the Apple Lottery 500 times?

Ex. 4) In a football game, the championship is on the line. The game is tied and the kicker will decide the outcome. During the season he made 2 out of 3 kicks from this distance. One way to simulate this situation is to use a spinner, as shown below.



a. What does one spin represent in this simulation?

b. Use a pencil to simulate the arrow on the spinner. If the pencil lands on a boundary segment, spin again.

c. Record the results of 15 trials. Find the experimental probability of him making the kick.

d. Compare the experimental probabilities and the theoretical probabilities of him making the kick.

Ex. 5) Describe the sample space for each of the following situations.

a. A child is in elementary school at Pinckney Community Schools.

b. Two ordinary dice are rolled and the numbers are subtracted. (Subtract the smaller from the larger.) For example, if one die shows a 2 and the other shows a 5, then $5 - 2 = 3$.

Assignment: Pg 187
#1.1 – 1.5