Probability Assignment 1:

***Do these problems on another sheet of paper, so you can show enough work that I can tell how you got your answer!***

1. (Make a table to answer) If I roll 2 regular dice,

a. What is the probability that the sum is even?

b. What is the probability that I roll the same number on both dice?

c. What is the probability that the sum is 9?

d. What is the probability that the sum is at least 9?

e. What is the most likely sum, and what is its probability?

2. Make an area and a tree diagram to answer:

If you spin two spinners that have these faces (shown below), and add the numbers:



a. What is the probability that you will get a sum less than 4?

b. What is the probability that you will get a sum of 6?

c. What sum are you most likely to get, and what is the probability of that sum?

3. For each of these situations, describe a sequence of simpler events that has the same outcomes:

a. Flipping 3 coins.

b. From a bag of 5 red, 4 blue and 8 yellow marbles, choose 3 marbles.

c. Toss a coin and a 6-sided die.

e. Spin 2 spinners.

4. For each of these situations, describe how to simulate them using a deck of cards:

a. rolling an 8 sided die (numbers 1-8)

b. rolling two 8-sided dice

c. spinning the spinner

