

NAME _____

HW # _____

1. Suppose you roll two number cubes.
 - a. What is the probability you get a 4 and a 6?
 - b. What is the probability you get two 5's?

Sample Space

2. You spin the spinner and flip a coin. Find the probability of each:



- a. spinning a 1 and flipping heads
- b. Spinning an odd number and flipping heads
- c. Spinning an even number and flipping tails or heads
- d. Not spinning a 3 and flipping tails
- e. Spinning a prime number and flipping heads

Sample Space

3. When taking a multiple choice test, you randomly guess the answers to two questions. Each question has three choices: A, B or C.
 - a. What is the probability you guess the correct answers to both questions?
 - b. Suppose you can eliminate one of the choices for each question. How does this change the probability of guessing the correct answers?

4. You have been assigned a 9-digit ID number
 - a. Why should you use the fundamental counting principle instead of a tree diagram to find the total number of possible ID numbers?
 - b. How many different ID numbers are possible?