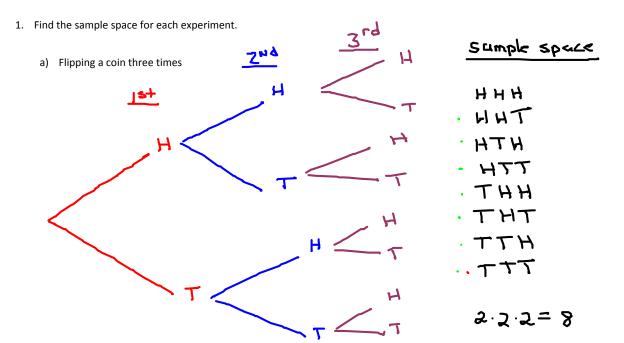
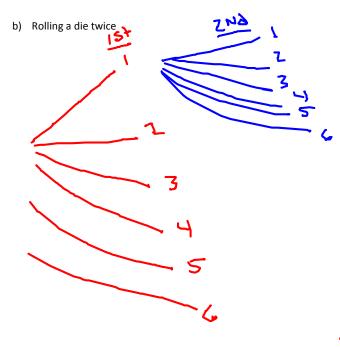
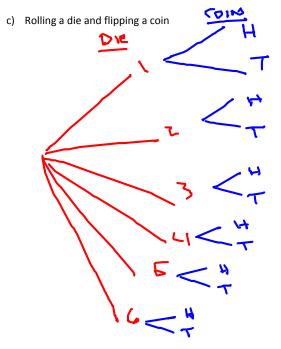
Theoretical Probability

Sample Space - the possible outcomes





sample space			
1,1	45,1 45,1 45,1 45,4 5,5 5,6	6.1 6.2 6.4 6.5 6.6	G=36
3.5 3.6			



2. Find the probability of each.

a) A die is rolled twice. Find the probability that the sum of the rolls is a seven.

b) A die is rolled twice. Find the probability that both numbers are the same.

c) A coin is flipped three times. Find the probability of flipping three tails.



d) A coin is flipped three times. Find the probability of flipping at least one tail.



3. An integer between 1 and 50 inclusive is drawn at random. Find the probability that the integer is a multiple of 5.

$$5, 10, 15, 20, 25, 30, 35, 40, 45, 50$$

$$\frac{10}{50} = 1$$

$$\frac{1}{5}$$

4. Which has a greater probability?

$$\frac{12}{50}$$
 or $\frac{18}{74}$
. 24 . 243

