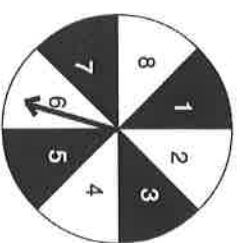


Homework – Day 6



1. Explain how you could use the **spinner** at the right to simulate whether a person picks a spade from a deck of 52 cards.
2. Given the following simulation, answer the questions that follow. **Situation:** Each package of Gooney Gum contains a mystery flavor piece of gum in it. Each of the 6 mystery flavors is equally likely. You purchase 8 packages of Gooney Gum. Find the probability that you get at least 5 different mystery flavors.

Trial	Flavors in the Package							
	1	2	3	4	5	6		
1	6	6	1	5	1	6	6	4
2	1	6	2	4	4	2	6	5
3	5	6	3	1	1	6	2	1
4	6	2	1	2	3	3	2	6
5	3	5	4	4	3	4	2	4
6	5	6	1	1	5	1	1	3
7	2	4	4	6	5	6	2	6
8	3	2	5	4	3	3	1	2
9	1	4	6	4	4	4	2	3
10	4	4	1	2	4	5	3	6

- a. Based on the trials, what do you think they used to simulate the situation?
- b. What does each number represent?
- c. Why did they look at 8 single digits at a time?
- d. Complete the frequency table below based on the trials provided.

Number of Different Mystery Flavors	Frequency
3	
4	
5	
6	

- e. Based on the results in your table, what is the probability that you will get exactly 5 different types of mystery gum?
- f. Based on the results in your table, what is the probability that you will get at least 5 different types of mystery gum?