Name:_____   Date:_____

Class:_____

Mid-MODULE 5 Test Review

1. An experiment consists of flipping a coin and rolling a number cube with the numbers 1-6 on the faces of the cube.

    Part A: List the sample space of this chance experiment.

    Part B: What is the probability of getting a head on the coin and the number 3 on the number cube?

    Part C: What is probability of getting a tail on the coin and an even number on the number cube?

2. Matty's piano book includes 15 songs in the key of C, 10 in the key of G, and 5 in the key of F. The songs from all three keys appear in random order. Over the past month, Matty has randomly opened his piano book to a song in the key of C 80 times, the key of G 30 times, and the key of F 10 times. What are the theoretical and experimental probabilities that the next song Matty randomly picks will be in the key of G?

    A. Theoretical probability = $\frac{1}{4}$ and experimental probability = $\frac{1}{3}$

    B. Theoretical probability = $\frac{1}{2}$ and experimental probability = $\frac{1}{3}$

    C. Theoretical probability = $\frac{1}{3}$ and experimental probability = $\frac{1}{2}$

    D. Theoretical probability = $\frac{1}{3}$ and experimental probability = $\frac{1}{4}$
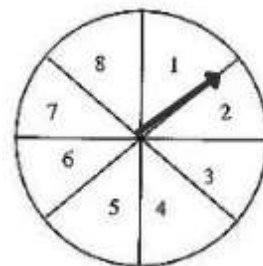
3. Sherry spun this spinner and rolled a six sided die.
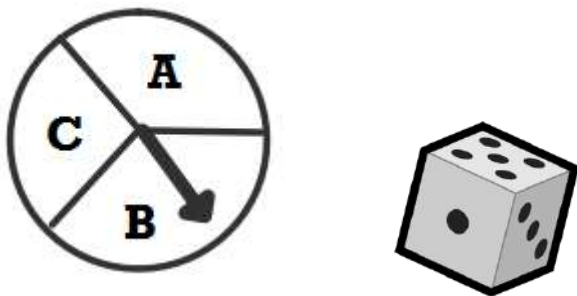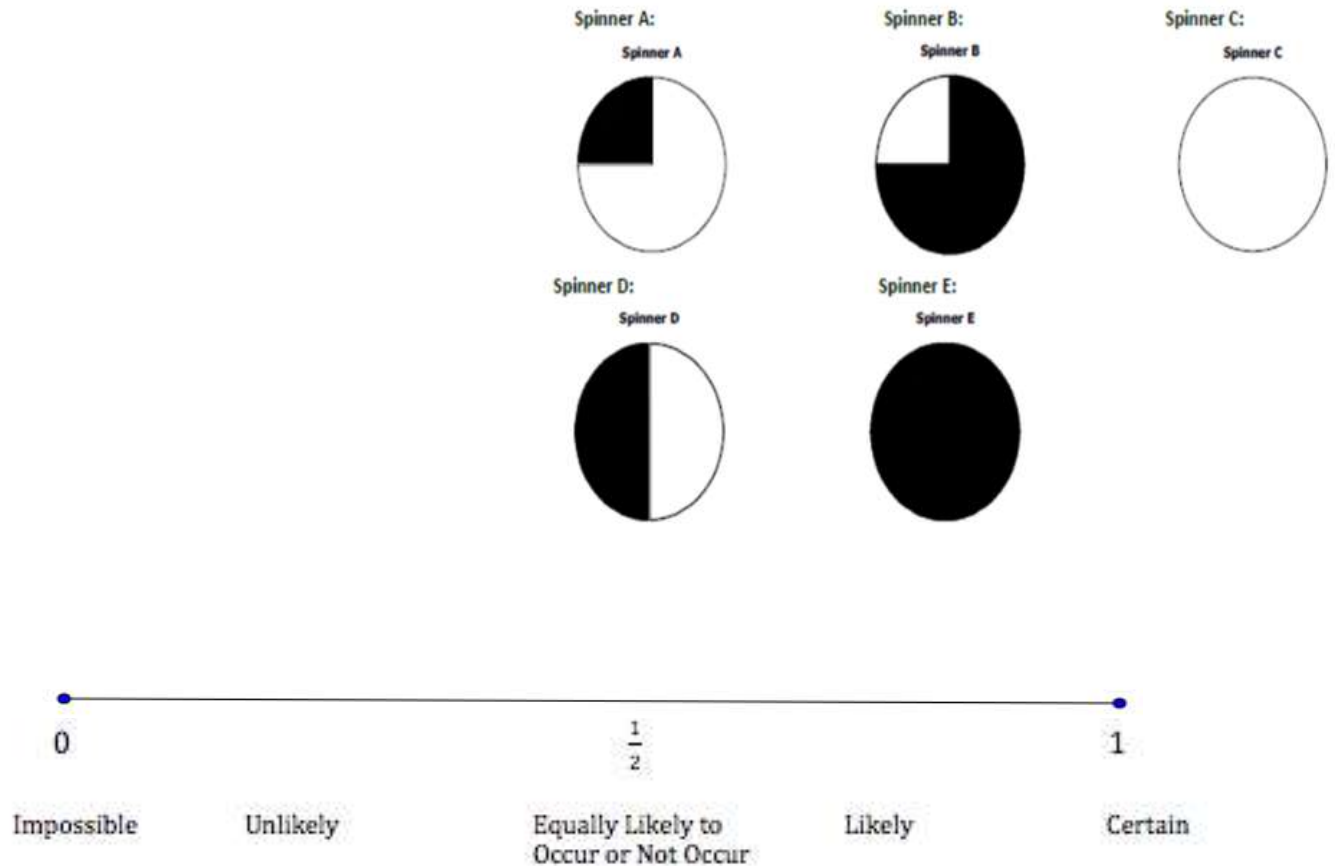
Part A: Show the sample space.

Part B: What is the probability that Sherry gets C on the spinner and rolls an even number?

4. If Alan spins a number less than five, Lindsey agrees to make chicken salad once a week for the rest of the school year for Alan. What is the probability that Alan will land on a number less than five?

5. The math teacher rolled a die 12 times. It landed on five 7 times. What is the theoretical probability that the teacher will roll a 5 on his next try?

6. Brent flips 3 coins. Show the sample space for this situation. What is the probability that Brent will flip heads at least 2 times?

7. Determine the likelihood that each spinner will land on white. Write the spinner letter on the Probability Scale below.

Spinner A:
Spinner A

Spinner B:
Spinner B

Spinner C:
Spinner C

Spinner D:
Spinner D

Spinner E:
Spinner E

0	$\frac{1}{2}$	1
Impossible	Equally Likely to Occur or Not Occur	Certain
Unlikely	Likely	

8. An experiment consists of flipping a coin and rolling a number cube with the numbers 1-6 on the faces of the cube.

PartA. List the sample space of this chance experiment. List the probability of each outcome in the sample space.

Part B. What is the probability of getting a head on the coin and the number 3 on the number cube?

Part C. What is probability of getting a tail on the coin and an even number on the number cube?