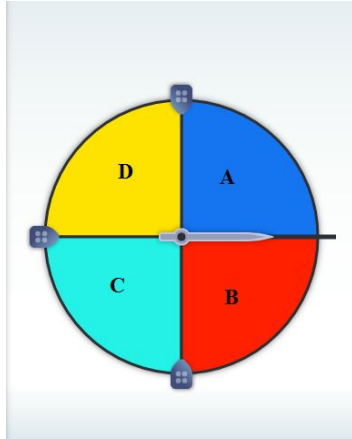


Name: \_\_\_\_\_

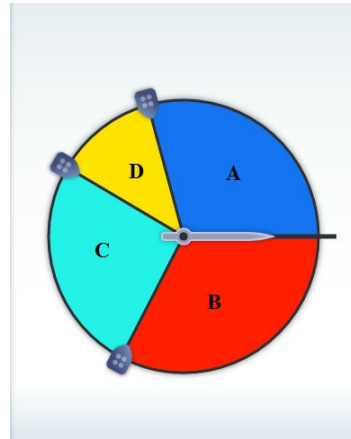
Date: \_\_\_\_\_

## Area & Probability

**Directions:** Complete the following questions with your group partners. Be sure to include reason for your answer in the space provided.



**Figure 1**



**Figure 2**

- 1) Hypothesize how the probability of spinning the section A in **Figure 1** differ (if at all) from spinning the section A in **Figure 2**? Explain your reasoning.
  
  
  
  
  
  
  
  
  
  
- 2) Hypothesize how the probability of spinning the section D in **Figure 1** differ (if at all) from spinning the section D in **Figure 2**? Explain your reasoning.
  
  
  
  
  
  
  
  
  
  
- 3) Spin each spinner 50 times and record the results in the table below:

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Spinner 1</b>				
<b>Spinner 2</b>				

4) Calculate the experimental probability of each section and record the results below:

	<b>P(A)</b>	<b>P(B)</b>	<b>P(C)</b>	<b>P(D)</b>
<b>Spinner 1</b>				
<b>Spinner 2</b>				

5) What can you conclude about the area of a section in relation to the probability for that section? Be sure to provide evidence for your answer.

6) Calculate the area of each section and record the results below:

	<b>A(A)</b>	<b>A(B)</b>	<b>A(C)</b>	<b>A(D)</b>
<b>Spinner 1</b>				
<b>Spinner 2</b>				

7) Does the area of each section correspond with the probability your experiment provided? Provide evidence for your answer.