

Partner #1 \_\_\_\_\_

Partner #2 \_\_\_\_\_

## Probability **"Rolling Dice" Station**

**Roll a pair of dice twenty times and create a tally of the sums in the table below. Then use your results to answer the questions.**

Sum	2	3	4	5	6	7	8	9	10	11	12
Tally											
Total											

1. What is the theoretical probability of rolling a sum of 6?
  
  
  
  
2. What is the experimental probability of rolling a sum of 6?
  
  
  
  
3. What is the theoretical probability of rolling a sum of 5 or less?
  
  
  
  
4. What is the experimental probability of rolling a sum of 5 or less?
  
  
  
  
5. The sums of 6, 7, and 8 are more theoretically probable than the other sums.
  - a. Why would these sums be more likely to occur than the others?
  
  
  
  
  - b. Did your experimental probability show this to be true? Why or why not?



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Partner #2 \_\_\_\_\_

## Probability **"Spinner" Station**

**Spin the spinner twenty times and create a tally of your results in the table below. Then use your results to answer the questions.**

<b>Color</b>	<b>Red</b>	<b>Green</b>	<b>Blue</b>
<b>Tally</b>			
<b>Total</b>			

1. What is the theoretical probability of spinning green?
2. What is the experimental probability of spinning green?
3. What is the theoretical probability of spinning red?
4. What is the experimental probability of spinning red?
5. How could you redraw the spinner to make blue equally probable to red without changing the probability of green? Draw a picture of what this new spinner would look like.

**All possible combinations when rolling two dice.**

1, 1	2, 1	3, 1	4, 1	5, 1	6, 1
1, 2	2, 2	3, 2	4, 2	5, 2	6, 2
1, 3	2, 3	3, 3	4, 3	5, 3	6, 3
1, 4	2, 4	3, 4	4, 4	5, 4	6, 4
1, 5	2, 5	3, 5	4, 5	5, 5	6, 5
1, 6	2, 6	3, 6	4, 6	5, 6	6, 6