Name: _____ Date: _____

Keeping Track of the Numbers

Part 1: Will It Snow in Bozeman, Montana?

1. Set up the bag. The bag will hold a total of 10 pieces. Assume 20 percent of those pieces are white.

    a. How many white pieces are in the bag?   _____

    b. How many red pieces are in the bag?   _____

2. Use the following table to record your data from the investigation. Remember the color coding for the activity:

<div align="center">

white piece = snow

red piece = no snow

</div>

Did snow fall in Bozeman?

Day	Yes	No
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

3. Based on the data you collected, answer the following questions:

    a. How many days did it snow in Bozeman?   _____

    b. What is the percentage of days during this time that it snowed in Bozeman?   _____

    c. Is this a higher or lower percentage of days than expected? Explain your answer.

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Name: _____ Date: _____

Part 2: Will It Rain in Baton Rouge, Louisiana?

1. Set up the bag.

What is the chance of rain in Baton Rouge, Louisiana, during this time? _____ percent

    a. How many white pieces are in the bag? _____

    b. How many red pieces are in the bag? _____

    c. What is the total number of pieces in the bag? _____

2. Use the following table to record your data from the investigation. Remember the color coding for the activity:

<div align="center">
white piece = rain
red piece = no rain
</div>

Day	Yes	No
1		
2		
3		

3. Based on the data you collected, answer the following questions:

    a. How many days did it rain in Baton Rouge? _____

    b. What is the percentage of days during this time that it rained in Baton Rouge? _____

    c. Is this a higher or lower percentage of days than expected? Explain your answer.

Part 3: Water Town

1. Set up the bag.

    a. What is the chance of an earthquake happening each year? _____

    b. How many white pieces are in the bag? _____

    c. How many red pieces are in the bag? _____

    d. What is the total number of pieces in the bag? _____

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Name: _____ Date: _____

2. Use the following table to record your data from the investigation. Remember the color coding for the activity:

<div align="center">white piece = earthquake
red piece = no earthquake</div>

Did Water Town have an earthquake?

Year	Yes	No
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

3. Based on the data you collected, answer the following questions:
   a. What is the number of years that Water Town had earthquakes? _____
   b. What is the percentage of years during this time that there were earthquakes? _____
   c. Is this a higher or lower percentage of years than expected? Explain your answer.

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