1. Play the dice game and record the scores in the table. Record the scores of a second game.

Which sum wins most of the time? _____

Does this game seem fair? _____

Sums	Game 1 Scores	Game 2 Scores
3		
7		
11		
12		

2. Write the sums from adding the two dice in the table here.

Why does the special sum of 7 win most of the time? _____

Which special sums will most likely lose much of the time?

_____

Is this game fair? _____

How could you make it fair?_____

_____

_____

Die 1

Die 2	1	2	3	4	5	6
1	2	3				
2						
3						
4						
5						
6						

3. Using the data from the table above, fill in the number of times a sum occurs. Then calculate the probabilities in fractions and percents. Simplify the fractions. Use a calculator for the percents.

Sums	Number Times	Fraction	Percent
2	I	$\frac{1}{36}$	2.8%
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
Totals		$\frac{36}{36}=$ ___	

The column header "Probability" spans Fraction and Percent.