Statistical Experiments

1. Roll two 6-sided dice and record the two numbers. Repeat until you gather 10 pairs of numbers.

Roll	Die #1	Die #2
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Data analysis:

a) What number did you roll most often? _____

b) What number did your roll least often? _____

c) Is there a number you never rolled? _____ If yes, which one? _____

2. Using the 10 pairs of numbers rolled in exercise 1, Fill in the table below:

Roll	Sum	Product
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Data analysis:

a) What **sum** did you roll most often? _____

b) What **product** did you roll most often? _____

c) What **sum** did your roll least often? _____

d) What **product** did your roll least often? _____
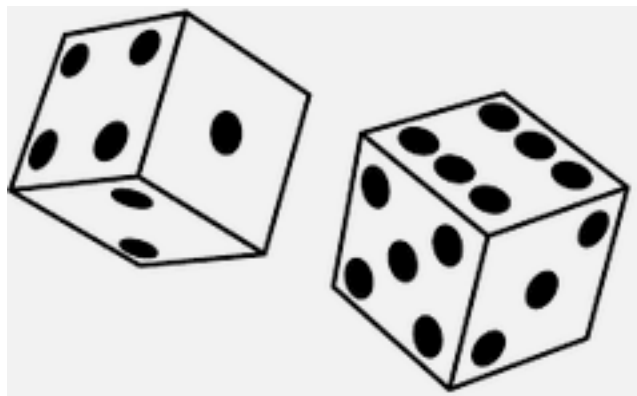
e) What is the average **sum** your rolled? _____

Hint: To find the average sum, add all sums and divide by 10.

f) What is the average **product** your rolled? _____

3. Roll a 30-sided die 30 times and record your results.

Roll	Result	Roll	Result	Roll	Result
1		11		21	
2		12		22	
3		13		23	
4		14		24	
5		15		25	
6		16		26	
7		17		27	
8		18		28	
9		19		29	
10		20		30	

a) Have you rolled any number more than once? _____ If yes, which one?_____

b) Is there a number that you have not rolled at all? ? _____ If yes, which one?_____

4. Select a card from a full deck of cards. Record information about the card. Return the card into the deck, shuffle, and select another cards. Repeat for total of 10 trials (selections).

Use symbols for suits:

_____ diamonds, _____ clubs, _____ spades, _____ hearts.

Selection	Suit	Rank	Face card? Y/N
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			