AQS200 – Root Cause
Exercise 8a
Problem Cause Data Analysis – Histogram

Name: _____   Date: _____

Instructions:

1. Create a histogram regarding the frequency of the numbers 1-6 when rolling a die.

Steps

1. A standard six-faced, numbered die was rolled 100 times; the results are listed on page 2.

2. Using the check sheet on page 3 tally up the number of occurrences for each number

2. Create the histogram using the blank graph available on page 4.

3. Analyze the results. Does the graph appear as you would have predicted?
    a. Is it centered?
    b. Is there tailing?
        i. If yes, what direction
        ii. Does this say anything about the die
    c. Is there enough discrimination between the values (i.e. is it a comb effect?)

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Standard die – rolled 100 times

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

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Tally of results

# Rolled	Occurrences	Total
1		
2		
3		
4		
5		
6		

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