

February 10, 2013

**Activity #1 – Sampling symbols using quadrants**

Names:

**Instructions:**

1. Label quadrant units 1 to 100
2. Create a sampling plan based on the sample rate (10%, 25%, 40%) and type (random or systematic random) being handed out
3. Select the “quadrants” to sample using the random number table below

7	0	7	4	4	7	0	6	6	9	6	5	2	5	1	9	9	1	2	8	7	5	0	6	1
7	7	3	3	4	1	0	3	3	6	6	3	8	7	5	0	6	5	7	5	7	7	9	8	2
0	4	6	2	7	3	6	7	4	4	7	1	4	7	2	2	2	9	8	8	0	5	7	0	7
4	2	9	8	7	9	9	1	3	4	7	8	8	2	1	6	5	1	7	1	0	9	6	0	1
3	1	9	4	3	3	2	0	9	0	1	0	2	7	9	0	4	2	6	2	7	9	5	9	5
3	5	1	9	4	0	4	8	9	4	6	9	7	3	0	4	0	8	6	9	9	2	3	4	3
6	9	8	6	6	4	0	0	1	2	2	5	3	3	5	7	1	2	3	7	3	1	0	2	6
6	4	9	3	2	3	9	4	0	4	8	2	5	5	2	6	1	3	7	2	4	7	6	6	7
0	3	5	7	1	4	2	2	2	4	0	4	9	7	2	4	8	1	5	5	7	6	8	7	6
6	4	0	2	7	7	0	9	0	1	5	7	4	4	8	4	1	3	2	6	8	2	7	9	6
7	0	8	3	9	4	5	1	5	0	9	5	6	6	3	7	8	5	4	2	4	8	5	2	4
4	0	4	4	6	6	3	9	3	3	0	9	8	1	3	9	7	1	8	3	0	7	6	6	6
2	1	8	9	6	7	7	0	7	8	5	9	3	9	7	1	9	3	4	8	5	9	8	9	0
9	9	6	0	9	7	6	3	0	4	3	3	2	5	0	1	6	1	9	2	2	6	0	4	6
9	1	1	9	3	8	4	7	9	6	7	1	0	4	7	8	5	3	6	7	4	3	5	1	9

4. Circle the quadrants you sampled on the attached gridded sheet
5. Answer the questions below

**Questions:**

1. What is your population?
2. What is your sample frame and unit?
3. What is your target sample rate?

## Random Sampling Concepts

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4. If random sample, what were your random numbers?
5. If systematic random sample, what random number was selected for the random start and which units did you sample?
6. Count each of the shape types in your sample & record below:

Shape	Tally	Sample total
Lightning bolt		
Clubs		
4-point star		
crescent		
Sun		

7. What extrapolation factor do you need to multiply by to calculate an estimate of the number of each shape in the population? \_\_\_\_\_
8. Extrapolate sample counts to total population

Shape	Estimate of population total
Lightning bolt	
Clubs	
4-point star	
crescent	
sun	

# Sampling - Activity #1

