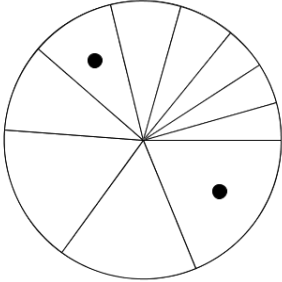
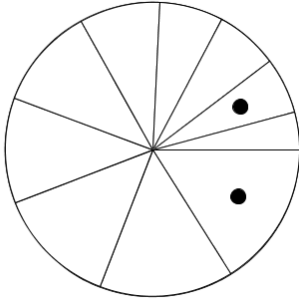
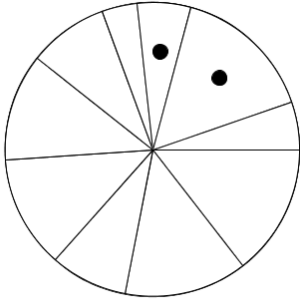
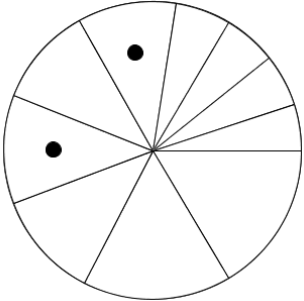
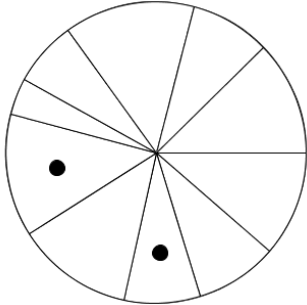
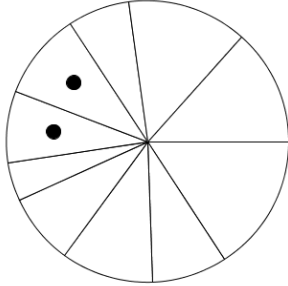
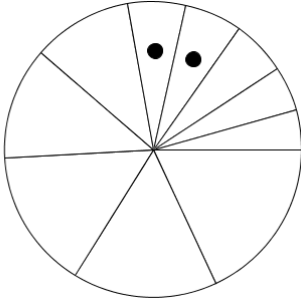
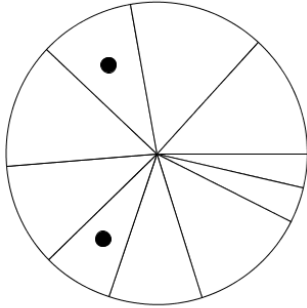
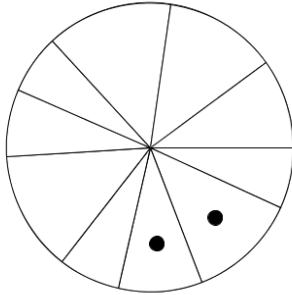


Lab 5: Experiment-- *Our Results*

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Visualizations To Test:

1. “PieChartIncrSize” : Pie Chart with wedges sorted by value in ascending order, marked edges may be contiguous
2. “PieChartUncontig” :Pie Chart with marked values NOT appearing in contiguous wedges
3. “PieChartContig” : Pie Chart with marked values appearing in contiguous wedges

PieChartIncrSize	PieChartUncontig	PieChartContig
		
		
		

Hypothesis:

- It will be the least challenging to provide an accurate estimate when the wedges are organized according to value.
- It will be less challenging to provide an accurate estimate when the wedges are contiguous, as opposed to when the wedges are not contiguous.

Hypothesis of Ranking	
Rank	Visualization
1	PieChartIncrSize
2	PieChartContig
3	PieChartUncontig

Results:

- It is the least challenging to estimate when the wedges are organized according to value.
- It is the most challenging to estimate when marks appear on two consecutive wedges.
However, the difference between this case and the case in which the edges are NOT contiguous is a slight.

Average by Visualization		
Visualization	Average of Errors	# Tests Completed
PieChartIncrSize	2.66	28
PieChartUncontig	2.89	28
PieChartContig	3.44	28

Average By Participant		
Participant ID	Average of Errors	# Tests Completed
98	2.02	3
47	3.49	15
46	4.52	3
45	2.85	3
32	4.01	3
31	3.97	3
28	2.68	3
27	2.40	15
26	2.79	3
25	2.97	18
24	2.76	15

Experiment Data Collected					
ParticipantID	Index	Vis	Error	TruePerc	ReportPerc
98	0	PieChartUncontig	0.57	0.89	0.9
47	2	PieChartUncontig	3.45	0.89	1
47	0	PieChartUncontig	4.70	0.46	0.2
47	0	PieChartUncontig	5.01	0.52	0.2
47	2	PieChartUncontig	2.93	0.73	0.8
47	2	PieChartUncontig	5.05	0.76	0.43
46	2	PieChartUncontig	4.50	0.43	0.2
45	1	PieChartUncontig	4.18	0.58	0.4
32	1	PieChartUncontig	4.52	0.38	0.15
31	1	PieChartUncontig	4.02	0.36	0.2
28	2	PieChartUncontig	0.64	0.89	0.9
27	1	PieChartUncontig	3.09	0.82	0.9
27	2	PieChartUncontig	3.23	0.51	0.42
27	2	PieChartUncontig	-0.97	0.85	0.85
27	0	PieChartUncontig	3.49	0.77	0.88
27	1	PieChartUncontig	1.84	0.44	0.41
26	0	PieChartUncontig	1.18	0.83	0.85
25	2	PieChartUncontig	3.70	0.93	0.8
25	0	PieChartUncontig	1.99	0.94	0.9
25	0	PieChartUncontig	4.43	0.49	0.28
25	2	PieChartUncontig	3.34	1.00	0.9
25	0	PieChartUncontig	3.60	0.88	1
25	1	PieChartUncontig	5.23	0.57	0.2
24	0	PieChartUncontig	3.51	0.79	0.9
24	0	PieChartUncontig	3.54	0.41	0.29
24	1	PieChartUncontig	3.41	0.67	0.78
24	1	PieChartUncontig	2.21	0.63	0.58
24	0	PieChartUncontig	2.40	0.57	0.52
98	2	PieChartIncrSize	1.55	0.83	0.8
47	1	PieChartIncrSize	1.26	0.62	0.6
47	2	PieChartIncrSize	0.05	0.59	0.6
47	1	PieChartIncrSize	4.05	0.51	0.35
47	0	PieChartIncrSize	2.36	0.50	0.45
47	0	PieChartIncrSize	4.51	0.67	0.44
46	0	PieChartIncrSize	4.66	0.60	0.35
45	2	PieChartIncrSize	3.24	0.39	0.3
32	2	PieChartIncrSize	4.16	0.58	0.4
31	0	PieChartIncrSize	4.02	0.74	0.9
28	0	PieChartIncrSize	3.08	0.33	0.25
27	2	PieChartIncrSize	1.79	0.77	0.8
27	0	PieChartIncrSize	1.85	0.74	0.71
27	0	PieChartIncrSize	3.81	0.43	0.29

ParticipantID	Index	Vis	Error	TruePerc	ReportPerc
27	1	PieChartIncrSize	3.42	0.74	0.85
27	0	PieChartIncrSize	0.17	0.40	0.39
26	1	PieChartIncrSize	3.37	0.85	0.75
25	1	PieChartIncrSize	-1.05	0.80	0.8
25	2	PieChartIncrSize	3.31	0.85	0.95
25	1	PieChartIncrSize	1.96	0.95	0.99
25	0	PieChartIncrSize	3.54	0.76	0.88
25	2	PieChartIncrSize	1.44	0.94	0.91
25	0	PieChartIncrSize	3.62	0.56	0.44
24	2	PieChartIncrSize	3.16	0.99	0.9
24	2	PieChartIncrSize	3.87	0.63	0.48
24	2	PieChartIncrSize	3.95	0.75	0.9
24	2	PieChartIncrSize	-1.07	0.99	0.99
24	2	PieChartIncrSize	3.82	0.74	0.88
98	1	PieChartContig	3.92	1.00	0.85
47	0	PieChartContig	3.27	0.59	0.5
47	1	PieChartContig	4.18	0.43	0.25
47	2	PieChartContig	3.89	0.40	0.25
47	1	PieChartContig	4.27	0.49	0.3
47	1	PieChartContig	3.36	0.61	0.51
46	1	PieChartContig	4.41	0.35	0.14
45	0	PieChartContig	1.12	0.92	0.9
32	0	PieChartContig	3.34	1.00	0.9
31	2	PieChartContig	3.88	0.30	0.15
28	1	PieChartContig	4.33	0.50	0.3
27	0	PieChartContig	2.40	0.85	0.9
27	1	PieChartContig	3.55	0.48	0.36
27	1	PieChartContig	3.15	0.40	0.31
27	2	PieChartContig	1.79	0.58	0.55
27	2	PieChartContig	3.34	0.54	0.44
26	2	PieChartContig	3.82	0.94	0.8
25	0	PieChartContig	3.17	0.99	0.9
25	1	PieChartContig	2.99	0.74	0.66
25	2	PieChartContig	2.01	0.91	0.87
25	1	PieChartContig	1.62	0.79	0.76
25	1	PieChartContig	4.29	0.63	0.82
25	2	PieChartContig	4.33	0.51	0.31
24	1	PieChartContig	3.54	0.37	0.25
24	1	PieChartContig	4.42	0.63	0.42
24	0	PieChartContig	2.37	0.94	0.89
24	0	PieChartContig	2.87	0.29	0.22
24	1	PieChartContig	-0.59	0.91	0.9