Assignment 1 – Solutions

- (a) This is a field experiment—the treatment group are the officers that were
 offered a bribe and the control group are the officers that were not offered a bribe.
 - (b) Aggregate data.
 - (c) Lab experiment—the students told to discuss politics are the treatment group and the students told to discuss Game of Thrones are the treatment group.
 - (d) Survey.
 - (e) Survey experiment—the treatment group is the group asked at the beginning and the control group is asked at the end (or the other way around).
- 2. (a) Ask people about their perceptions of the weather and ask people their opinion on global warming. Or ask people to report were they live, find out the recent temperature where they live, and ask people to report their opinion on global warming.
 - (b) Measure temperature for some geographic unit—states, cities, zip codes, etc. Collecting a measure of global warming opinion using aggregate data is more difficult, but some possibilities: results of ballot initiatives using precinct level voting data, aggregating up existing survey data on global warming opinion to the state level, count the number of members of a global warming advocacy group in each state.
 - (c) Very hard, since weather cannot be directly manipulated by researcher in the field.

- (d) Vary the temperature in the lab without informing participants. Ask the participants to report their opinions on global warming. Or have half of the respondents watch a weather report about a recent snowstorm and the other half watch a news program that does not mention the recent weather. Again ask the participants to report their opinion on global warming.
- (e) At the end of the survey, all respondents are asked their opinions on global warming. Only half of the respondents are asked a series of questions about the recent weather, to prime their attention to recent weather. The other half do not receive these question, so serve as a control group.
- 3. (a) Quantitative, discrete, interval.
 - (b) Qualitative, discrete.
 - (c) Quantitative, continuous, interval.
 - (d) Qualitative, discrete.
 - (e) Quantitative, discrete, interval.
 - (f) Quantitative, discrete, ordinal.
 - (g) Qualitative, discrete.
 - (h) Qualitative, discrete.
 - (i) Quantitative, discrete, ordinal.
- 4. (a)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Agnostic	11	.9	1.2	1.2
	Atheist	10	.8	1.1	2.3
	Baptist	117	9.7	12.6	14.9
	Catholic/Roman Catholic	<mark>215</mark>	17.9	<mark>23.2</mark>	38.1
	Episcopalian	8	.7	.9	39.0
	Jewish	31	2.6	3.3	42.3
	Lutheran	33	2.7	3.6	45.9
	Methodist	56	4.7	6.0	51.9
	Pentecostal	15	1.2	1.6	53.6
	Presbyterian	9	.7	1.0	54.5
	Protestant	117	9.7	12.6	67.2
	Southern Baptist	4	.3	.4	67.6
	NONE	98	8.1	10.6	78.2
	OTHER	1	.1	.1	78.3
	Christian (Protestant)	97	8.1	10.5	88.8
	Christian (Non-Protestant)	64	5.3	6.9	95.7
	Other Non-Christian	18	1.5	1.9	97.6
	Islam/Muslim	1	.1	.1	97.7
	Mormon/LDS	13	1.1	1.4	99.1
	DK/No opinion	8	.7	.9	100.0
	Total	926	76.9	100.0	
Missing	System	278	23.1		
Total		1204	100.0		

Catholic / Roman Catholic is the most common religious group in the sample.

Q918. RACE * Q5 NET Bush Approve/Disapprove Crosstabulation

			Q5 NET Bush Approve/Disapprove			Total
			Approve NET	Disapprove NET	DK/No opinion	Approve NET
Q918. RACE	White	Count	534	378	29	941
		% within Q918. RACE	<mark>56.7%</mark>	40.2%	3.1%	100.0%
	Black	Count	14	73	4	91
		% within Q918. RACE	15.4%	80.2%	4.4%	100.0%
	White Hispanic	Count	18	16	0	34
		% within Q918. RACE	52.9%	47.1%	.0%	100.0%
	Black Hispanic	Count	0	2	0	2
		% within Q918. RACE	.0%	100.0%	.0%	100.0%
	Hispanic (no race given)	Count	11	11	4	26
		% within Q918. RACE	42.3%	42.3%	15.4%	100.0%
	Asian	Count	8	7	2	17
		% within Q918. RACE	47.1%	41.2%	11.8%	100.0%
	Other Race	Count	15	25	1	41
		% within Q918. RACE	36.6%	61.0%	2.4%	100.0%
	DK/No opinion	Count	1	0	0	1
		% within Q918. RACE	100.0%	.0%	.0%	100.0%
Total		Count	601	512	40	1153
		% within Q918. RACE	52.1%	44.4%	3.5%	100.0%

Whites are most likely to approve of President Bush (56.7%). Black Hispanics are least likely to approve of President Bush (0%). However, there are only two respondents of this race in the sample, so there is much uncertainty attached to this statistic. Black respondents are least likely to approve of President Bush (15.4%), among those groups that have a substantial number of respondents in the sample.

(c) 6 pts

It does not make sense to talk about the mean racial group in the sample or the median racial group because race is a qualitative, and thus an unordered, variable.

A qualitative variable cannot be described numerically using a median or mean.