

Statistics for managers individual work wk7

[Business](#)



Statistics for Managers Descriptive statistics The respondents' answers on pay cut on average were 29 and on restriction of lobbyists, an average of 1.30 was found out. Table 1: Descriptive

Statistics	N	Minimum	Maximum	Mean	Std. Deviation
Pay cut	100	1	21	29.456	10.461
Lobbyist	100	1	30	21.461	10.414
t_limit	100	1	21	41.494	10.456
Valid N (listwise)	100	2	2	2	2

Test for independence of responses (Yes and No) for cutting pay and party affiliation SOLUTION In table 2 below, the p-value for the Pearson Chi-square test is 0.006 (a value less than $\alpha = 0.05$), we thus reject the null hypothesis (of no association) and conclude that there is a dependence between party affiliation and response on cutting legislators pay. Table 2: Chi-Square

Tests	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Pearson Chi-Square
Chi-Square	10.187	2	.006	.005	10.187
Likelihood Ratio	10.689	2	.005	.005	10.509
Fishers Exact Test	10.509	2	.005	.005	10.509

N of Valid Cases 100 a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 5.51. 3. Test for independence of

responses (Yes and No) for more restrictions on lobbyists and party affiliation SOLUTION In table 3 below, the p-value for the Pearson Chi-square test is 0.156 (a value greater than $\alpha = 0.05$), we thus fail to reject the null hypothesis (of no association) and conclude that there is no dependence between party affiliation and response on more restrictions on lobbyists.

Tests	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Pearson Chi-Square
Chi-Square	3.719	2	.156	.174	3.719
Likelihood Ratio	3.661	2	.160	.167	3.661
Fishers Exact Test	3.513	2	.181	.181	3.513

N of Valid Cases 100 a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 5.70. 4. Test for independence of responses (Yes and No) for term limits and party

affiliation SOLUTION In table 4 below, the p-value for the Pearson Chi-square test is 0.078 (a value greater than $\alpha = 0.05$), we thus fail to reject the null

hypothesis (of no association) and conclude that there is no dependence between party affiliation and response on time limit. Table 4: Chi-Square Tests

Tests	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Pearson Chi-Square
5.112	a	2	.078	.077	Likelihood Ratio
5.186	2	.075	.077	Fishers Exact Test	
5.132	.074	N of Valid Cases			

100a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 7.79. 5. Does it appear there is a broad support for change across political lines? SOLUTION There appears to be broad support for change however not across political lines. This can be confirmed by the figures presented below. We clearly see that 71% of the respondents agreed on cutting pay for the legislators, 70% agreed that more restrictions should be enacted on the lobbyists and lastly 59% of the respondents agreed that time limit for the legislators should be fixed. However, the results on chi-square tests do not show appearance of broad support for change across political lines.