

161-003 SP 03  
LAB 03-20-03

**PURPOSE:** You will access the current class questionnaire. You will generate both a frequency distribution and the mean and standard deviation for a particular variable. You will then create in a syntax box the statements that create a new variable that is a Z SCORED version of the variable in question. You will then generate the frequency distribution of that new z scored variable and answer the question directed at your group. You will then report out. You will work in small groups of AT LEAST TWO BUT NO MORE THAN THREE.

**DIRECTIONS** follow below followed by the group work sheet.

You will receive participation credit for doing this; your group will receive extra credit for getting the RIGHT answer.

#### **DIRECTIONS**

1. Access the class questionnaire. It is on the main website. Download it, and save it on the A disk.
2. Start SPSS
3. Open up the class data file
4. Run a frequency distribution for the variable your group is working on. Be sure to ask for the mean and standard deviation as well as the frequency distribution.
5. Write down the resulting mean and standard deviation.
6. Open up a syntax box.
7. Use a COMPUTE statement to tell it to create a new Z scored version of the variable in question. For example: suppose your original variable Q99 (CONFIDENCE IN JUDGE JUDY) and the mean was 2.1 and the sd=.7. You would write this program to create the new variable:

$Q99Z = ((Q99 - 2.1) / .7)$  .

EXECUTE .

8. Save the syntax box.
9. Run the syntax
10. Look at your data file to see if your new variable has been created.
11. Get the mean and sd of your new variable. If it has been created correctly the mean will = 1 and the sd will = 1.
12. Run the frequency distribution on the new variable.
13. Fill out the requested report on the next page.
14. Prepare to report out your group's findings.

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GROUP PARTICIPATION SHEET      YOU ARE GROUP NUMBER: \_\_\_\_\_

NAMES: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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IF YOU ARE GROUP NUMBER	YOU ARE WORKING ON QUESTION NUMBER	YOU ARE FOCUSING ON THE FOLLOWING SCORE
1	Q22	0
2	Q30	2
3	Q30	3
4	Q31	3
5	Q33	1
6	Q34	2
7	Q37	3
8	Q37	2

WRITE YOUR ANSWER HERE:

The score of \_\_\_\_\_ on Question \_\_\_\_\_ equals a Z score of \_\_\_\_\_ and

was \_\_\_\_\_ standard deviations

(circle one) above / below

the average score for the class

**Statistics**

Q22COURT Confidence: US Supreme Cou

N	Valid	18
	Missing	1
Mean		1.61
Std. Deviation		.979

**Q22COURT Confidence: US Supreme Court**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Very Little	2	10.5	11.1	11.1
	1 Some	7	36.8	38.9	50.0
	2 Quite a Lot	5	26.3	27.8	77.8
	3 A Great Deal	4	21.1	22.2	100.0
	Total	18	94.7	100.0	
Missing	System	1	5.3		
Total		19	100.0		

**Statistics**

Q30POLIC Confidence: Police

N	Valid	18
	Missing	1
Mean		1.50
Std. Deviation		1.043

**Q30POLIC Confidence: Police**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Very Little	4	21.1	22.2	22.2
	1 Some	4	21.1	22.2	44.4
	2 Quite a Lot	7	36.8	38.9	83.3
	3 A Great Deal	3	15.8	16.7	100.0
	Total	18	94.7	100.0	
Missing	System	1	5.3		
Total		19	100.0		

**Statistics**

Q31CJSYS Confidence: Criminal Justice system

N	Valid	18
	Missing	1
Mean		1.39
Std. Deviation		.778

**Q31CJSYS Confidence: Criminal Justice system**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Very Little	2	10.5	11.1	11.1
	1 Some	8	42.1	44.4	55.6
	2 Quite a Lot	7	36.8	38.9	94.4
	3 A Great Deal	1	5.3	5.6	100.0
	Total	18	94.7	100.0	
Missing	System	1	5.3		
Total		19	100.0		

**Statistics**

Q33PROTE Confidence: ability of police to protect you from violent crime

N	Valid	19
	Missing	0
Mean		1.05
Std. Deviation		.780

**Q33PROTE Confidence: ability of police to protect you from violent crime**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 None at all	5	26.3	26.3	26.3
	1 Not very much	8	42.1	42.1	68.4
	2 Quite a lot	6	31.6	31.6	100.0
	Total	19	100.0	100.0	

**Statistics**

Q34SOLVC Confidence: ability of police to solve crime

N	Valid	18
	Missing	1
Mean		1.39
Std. Deviation		.778

**Q34SOLVC Confidence: ability of police to solve crime**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 None at all	2	10.5	11.1	11.1
	1 Not very much	8	42.1	44.4	55.6
	2 Quite a lot	7	36.8	38.9	94.4
	3 A great deal	1	5.3	5.6	100.0
	Total	18	94.7	100.0	
Missing	System	1	5.3		
Total		19	100.0		

**Statistics**

Q37FRIEN Rate: friendliness of police

N	Valid	19
	Missing	0
Mean		1.53
Std. Deviation		1.020

**Q37FRIEN Rate: friendliness of police**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Very low	4	21.1	21.1	21.1
	1 Low	4	21.1	21.1	42.1
	2 Average	8	42.1	42.1	84.2
	3 High	3	15.8	15.8	100.0
	Total	19	100.0	100.0	