

## Warning! Warning! Warning! Warning! Warning! Warning!

Put your name on **every page** of this test. We will take the pages apart for grading, and if your name is missing, you may not get all the credit you deserve.

Make certain that you have **every page** of this test. If your copy is missing part of the test, you cannot possibly earn the entire 100 points! This test has 6 pages.

Each problem is followed by a point value for the problem. (#)

Formulas

$$r = \frac{\sum (Z_1 * Z_2)}{n}$$

$$\alpha = \frac{n r^2}{1 + (n - 1) r^2}$$

Table 1. Correlations between Personality measures and shoes.

n = 258	<u>Extraverted</u>	<u>Neurotic</u>	<u>Agreeable</u>	<u>Conscientious</u>	<u>Open</u>
Neurotic	-.195**				
Agreeable	.109	-.270**			
Conscientious	.035	-.120	.336**		
Open	.268**	-.117	.132*	-.019	
Shoes	.282**	.077	.246**	.197**	.110

Note \* p < 0.05; \*\* p < 0.01

Personality measures: In general, how much are you...

**Extraverted:** Talkative Active Extraverted reversed: Quiet Shy

**Neurotic:** Insecure moody easily upset reversed: Calm Cheerful

**Agreeable:** Considerate Cooperative Sympathetic reversed: Self-centered Critical

**Conscientious:** Orderly Organized self-disciplined reversed: Careless Irresponsible

**Open:** Imaginative Curious Open to new experiences reversed: Conventional Unartistic

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

**Part 1. Use Table 1 to answer these questions**

1. List the NON SIGNIFICANT correlations in order of increasing magnitude: (3)

-.019, .035, .077, .109, .110, -.117, .120

2. Interpret and report in APA format one of the three significant correlations with shoes. (4)

The more extraverted you are, the more shoes you have ( $r = .28, p < .01$ ).

The more open you are, the more shoes you have ( $r = .27, p < .01$ ).

The more neurotic you are, the less shoes you have ( $r = -.20, p < .01$ ).

3. Interpret the correlation between Extravert and Agreeable and report the statistics in APA format. (4)

There is no significant relationship between extraversion and agreeableness ( $r = .11, ns$ )

4. Interpret the correlation between Extravert and Open and report the statistics in APA format. (4)

The more extraverted you are, the more open you are ( $r = .27, p < .01$ ).

5. Extra Credit. Explain briefly what the pattern of correlations tells you about extraverted people. (up to 5 points)

Extraverts are less neurotic, more open to new experiences, and have more shoes. There wasn't a relationship between extraverts and the other variables (e.g. agreeableness, conscientiousness).

Part 2.

Frequency Output for Variable X.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	69	12.2	58.0	58.0
	2	31	5.5	26.1	84.0
	3	13	2.3	10.9	95.0
	4	6	1.1	5.0	100.0
Total		119	21.0	100.0	

1. How many cases are included in these data? 119 (2)

2. What is the **median** of variable X? 1 (2)

3. What is the **mode** of variable X? 1 (2)

4. Calculate the **mean** of variable X. (4)

1.63

5. Assume variable X is university standing as follows:

1. Freshman/Sophomore
2. Junior/Senior
3. Graduate (including medical and law)
4. Faculty/Staff

**Report** the appropriate statistic for central tendency in APA format. (3)

The modal response is freshman/sophomore.

6. Assume variable X is response to this question:

Enter the number of cars you currently own.

**Report** the appropriate statistic for central tendency in APA format. (3)

mean = 1.63

7. Display variable X in a **frequency polygon**. (4)

