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 EDG500 Educational Research & Statistics
 Professor Bennett Schephen
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Exercise Chapter 10

```
GET
  FILE='C:\Users\lahoz\OneDrive\Documents\Word Typed and success.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
CORRELATIONS
  /VARIABLES=Words Success
  /PRINT=TWOTAIL NOSIG
  /MISSING=PAIRWISE.
```

Correlations

Notes

Output Created		23-FEB-2023 00:27:06
Comments		
Input	Data	C:\Users\lahoz\OneDrive\Documents\Word Typed and success.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Cases Used		Statistics for each pair of variables are based on all the cases with valid data for that pair.
Syntax		CORRELATIONS /VARIABLES=Words Success /PRINT=TWOTAIL NOSIG /MISSING=PAIRWISE.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

[DataSet1] C:\Users\lahoz\OneDrive\Documents\word Typed and success.sav

Correlations

		Words Typed per Minutes	Success on the Job
Words Typed per Minutes	Pearson Correlation	1	.749**
	Sig. (2-tailed)		.000
	N	20	20
Success on the Job	Pearson Correlation	.749**	1
	Sig. (2-tailed)	.000	
	N	20	20

** . Correlation is significant at the 0.01 level (2-tailed).

```
NONPAR CORR
/VARIABLES=Words Success
/PRINT=SPEARMAN TWOTAIL NOSIG
/MISSING=PAIRWISE.
```

Nonparametric Correlations

Notes

Output Created		23-FEB-2023 00:27:06
Comments		
Input	Data	C:\Users\lahoz\OneDrive\Documents\Word Typed and success.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each pair of variables are based on all the cases with valid data for that pair.
Syntax		NONPAR CORR /VARIABLES=Words Success /PRINT=SPEARMAN TWOTAIL NOSIG /MISSING=PAIRWISE.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00
	Number of Cases Allowed	349525 cases ^a

a. Based on availability of workspace memory

Correlations

			Words Typed per Minutes	Success on the Job
Spearman's rho	Words Typed per Minutes	Correlation Coefficient	1.000	.659**
		Sig. (2-tailed)	.	.002
		N	20	20
	Success on the Job	Correlation Coefficient	.659**	1.000
		Sig. (2-tailed)	.002	.
		N	20	20

** . Correlation is significant at the 0.01 level (2-tailed).

- a. What is the value of the Pearson r ? The value of the Pearson r is .749.
- b. What is the value of Spearman's ρ ? The value of the Spearman's ρ is .659.
- c. Write a sentence that presents the Pearson r for the relationship between words typed and success: The relationship is direct because it is a positive number. Relationship is moderately strong (Pearson r =.74)