

EXERCISES USING SPSS

1. CORRELATIONS

```

/VARIABLES=time score
/PRINT=TWOTAIL NOSIG
/STATISTICS DESCRIPTIVES
/MISSING=PAIRWISE .

```

Correlations

Descriptive Statistics

	Mean	Std. Deviation	N
TIME	26.8750	19.0746	8
SCORE	10.5000	5.0427	8

Correlations

		TIME	SCORE
TIME	Pearson Correlation	1.000	.962**
	Sig. (2-tailed)	.	.000
	N	8	8
SCORE	Pearson Correlation	.962**	1.000
	Sig. (2-tailed)	.000	.
	N	8	8

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

2. REGRESSION

```

/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT score
/METHOD=ENTER time .

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
SCORE	10.5000	5.0427	8
TIME	26.8750	19.0746	8

Correlations

		SCORE	TIME
Pearson Correlation	SCORE	1.000	.962
	TIME	.962	1.000
Sig. (1-tailed)	SCORE	.	.000
	TIME	.000	.
N	SCORE	8	8
	TIME	8	8

Variables Entered/Removed^b

Model	Variables Entered	Variables Removed	Method
1	TIME ^a		Enter

- a. All requested variables entered.
 b. Dependent Variable: SCORE

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.962 ^a	.925	.912	1.4935

- a. Predictors: (Constant), TIME

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	164.616	1	164.616	73.796	.000 ^a
	Residual	13.384	6	2.231		
	Total	178.000	7			

- a. Predictors: (Constant), TIME
 b. Dependent Variable: SCORE

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	3.667	.955		3.842	.009
	TIME	.254	.030	.962	8.590	.000

- a. Dependent Variable: SCORE

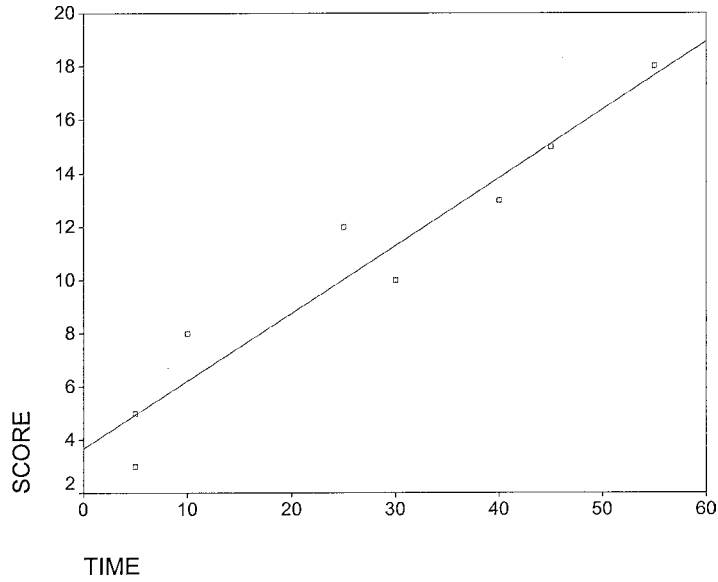
$$\text{SCORE} = 3.667 + 0.254 (\text{TIME})$$

```

GRAPH
/SCATTERPLOT(BIVAR)=time WITH score
/MISSING=LISTWISE .

```

Graph



```

3. NONPAR CORR
/VARIABLES=b a
/PRINT=SPEARMAN TWOTAIL NOSIG
/MISSING=PAIRWISE .

```

Nonparametric Correlations

Correlations

			B	A
Spearman's rho	B	Correlation Coefficient	1.000	-.098
		Sig. (2-tailed)	.	.817
		N	8	8
	A	Correlation Coefficient	-.098	1.000
		Sig. (2-tailed)	.817	.
		N	8	8

```
GRAPH  
/SCATTERPLOT(BIVAR)=raterb WITH ratera  
/MISSING=LISTWISE .
```

Graph

