```
 *Inter-Item r = .20.
CORR v1 v2 /MISS = LIST.
```

Correlations

	v1
v2	.196

```
 SAMPLE 48 FROM 20000.
RELIAB /VARI = v1 TO v2.
```

Cronbach's Alpha	N of Items
.326	2

```
 RELIAB /VARI = v1 to v4.
```

Cronbach's Alpha	N of Items
.425	4

```
 RELIAB /VARI = v1 to v8.
```

Cronbach's Alpha	N of Items
.693	8

```
 RELIAB /VARI = v1 to v16.
```

Cronbach's Alpha	N of Items
.767	16

```
*Inter-Item r = .30.
CORR v1 v2 /MISS = LIST.
```

	v1
v2	.296
	.000

```
 SAMPLE 48 FROM 20000.
RELIAB /VARI = v1 to v2.
```

Cronbach's Alpha	N of Items
.468	2

```
 RELIAB /VARI = v1 to v4.
```

Cronbach's Alpha	N of Items
.580	4

```
 RELIAB /VARI = v1 to v8.
```

Cronbach's Alpha	N of Items
.785	8

```
 RELIAB /VARI = v1 to v16.
```

Cronbach's Alpha	N of Items
.850	16

```
 *Inter-Item r = .60.
CORR v1 v2 /MISS = LIST.
```

	v1
v2	.597
	.000

```
 SAMPLE 96 FROM 20000.
RELIAB /VARI = v1 to v2.
```

Cronbach's Alpha	N of Items
.769	2

```
 RELIAB /VARI = v1 to v4.
```

Cronbach's Alpha	N of Items
.865	4

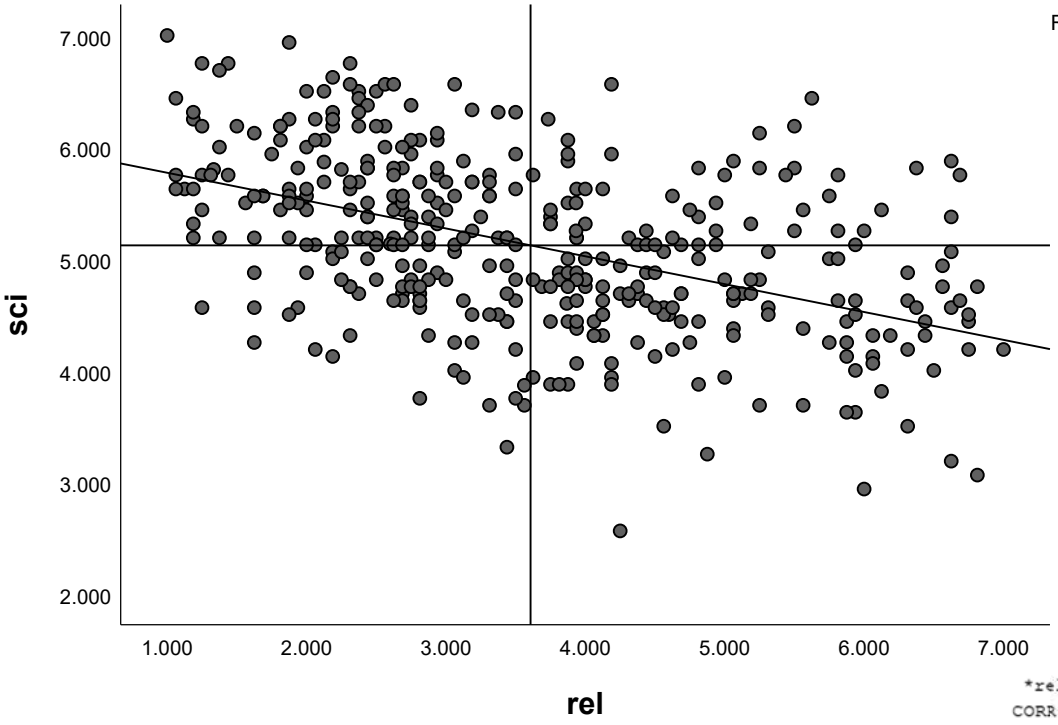
```
 RELIAB /VARI = v1 to v8.
```

Cronbach's Alpha	N of Items
.927	8

```
 RELIAB /VARI = v1 to v16.
```

Cronbach's Alpha	N of Items
.958	16

```
GRAPH  /SCATTERPLOT(BIVAR)=rel WITH sci.
```




```
*relationship between sci and rel.
CORR sci rel /STAT.
```

	Mean	Std. Deviation	N
sci	5.12012	.775688	381
rel	3.60728	1.475327	381

```
REGRESS /DEP = sci /ENTER rel /SAVE PRED(prds.r) RESI(ress.r).
```

Correlations

		sci
rel		-.474
		.000
		381

Model	R	R Square
1	.474	.225

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	51.469	1	51.469	110.101	.000
	Residual	177.173	379	.467		
	Total	228.643	380			

Model		Unstandardized Coefficients		Standardized Coefficients		
		B	Std. Error	Beta	t	Sig.
1	(Constant)	6.020	.093		64.985	.000
	rel	-.249	.024	-.474	-10.493	.000

Residuals Statistics

	Mean	Std. Deviation	N
Predicted Value	5.12012	.368030	381
Residual	.000000	.682822	381

```
*Hypothesis about mu sci = 4.5, mu rel = 4.5.
TTEST /TESTVALU = 4.5 /VARI = sci.
```

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
sci	381	5.12012	.775688	.039740

One-Sample Test

	Test Value = 4.5			
	t	df	Sig. (2-tailed)	Mean Difference
sci	15.605	380	.000	.620122

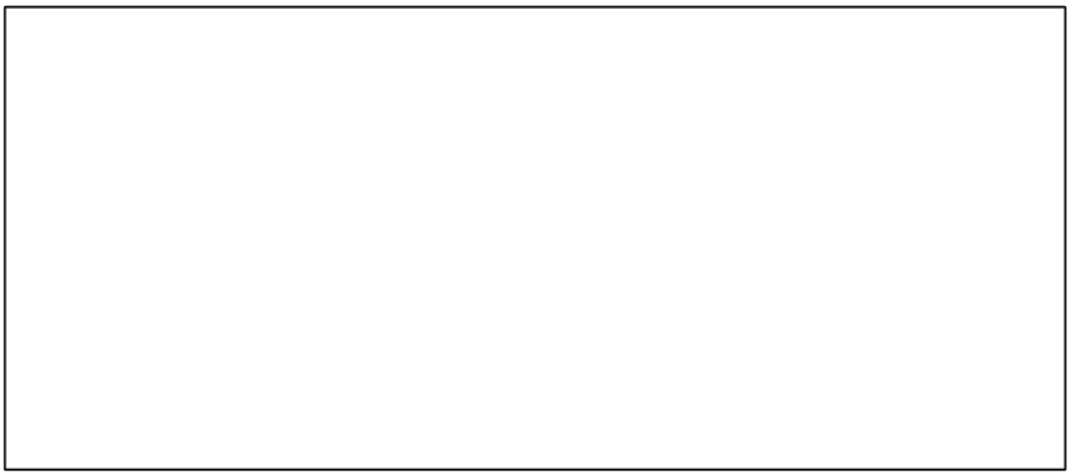
```
TTEST /TESTVALU = 4.5 /VARI = rel.
```

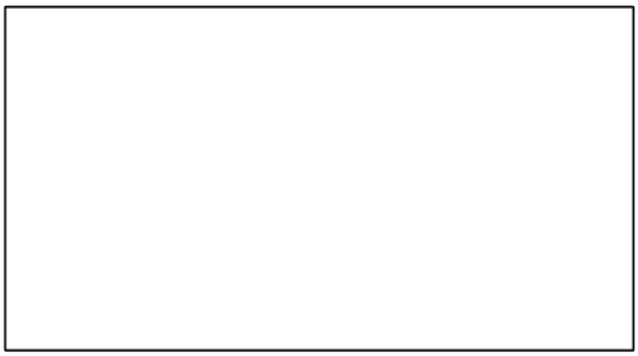
One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
rel	381	3.60728	1.475327	.075583

One-Sample Test

	Test Value = 4.5			
	t	df	Sig. (2-tailed)	Mean Difference
rel	-11.811	380	.000	-.892717





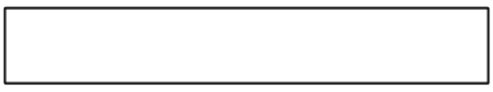
```
 *diff on rel.
TTEST GROUP = gender /VARI = rel.
```

Group Statistics

	Gender	N	Mean	Std. Deviation
rel	**1**	**89**	**3.18230**	**1.274440**
	2	**292**	**3.73682**	**1.509650**

Independent Samples Test

	t-test for Equality of Means				
	t	**df**	**Sig. (2-tailed)**	**Mean Difference**	**Std. Error Difference**
rel	**-3.140**	**379**	**.002**	**-.554512**	**.176587**



```
MANOVA rel BY gender(1 2).
```

Source of Variation	SS	DF	MS	F	Sig of F
WITHIN CELLS	806.13	379	2.13		
Gender	20.97	1	20.97	9.86	.002
(Model)	20.97	1	20.97	9.86	.002
(Total)	827.10	380	2.18		

R-Squared = .025 Adjusted R-Squared = .023

```
REGRESS /DEP = rel /ENTER gender.
```

Model	R	R Square
1	.159	.025

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	20.973	1	20.973	9.861	.002
	Residual	806.131	379	2.127		
	Total	827.105	380			

		Unstandardized Coefficients			
Model		B	Std. Error	t	Sig.
1	(Constant)	2.628	.321	8.193	.000
	Gender	.555	.177	3.140	.002

```
*Dependent t; do average of rel and sci scores differ (not meaningful?).
TTEST PAIRED rel sci.
```

		Mean	N	Std. Deviation
Pair 1	rel	3.60728	381	1.475327
	sci	5.12012	381	.775688

		N	Correlation	Sig.
Pair 1	rel & sci	381	-.474	.000

		Paired Differences					
		Mean	Std. Deviation	Std. Error Mean	t	df	Sig. (2-tailed)
Pair 1	rel - sci	-1.512839	1.965760	.100709	-15.022	380	.000

```
COMPUTE diff = sci-rel.
TTEST TESTVALUE = 0 /VARI = diff.
```

	N	Mean	Std. Deviation	Std. Error Mean
diff	381	1.51284	1.965760	.100709

	Test Value = 0			
	t	df	Sig. (2-tailed)	Mean Difference
diff	15.022	380	.000	1.512839

```
*analyses: sci rel & gender; gender controlling for rel.
CORR sci rel gender.
```

Correlations

	sci	rel
rel	-.474	
	.000	
	381	
Gender	-.153	.159
	.003	.002
	381	381

```
GRAPH  /SCATTERPLOT(BIVAR)=rel WITH sci by gender.
```