

## EXERCISE USING SPSS

```
T-TEST
  /TESTVAL=9
  /MISSING=ANALYSIS
  /VARIABLES=ncorrect
  /CRITERIA=CIN (.95) .
```

### T-Test

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
NCORRECT	20	10.6500	3.0826	.6893

One-Sample Test

	Test Value = 9					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
NCORRECT	2.394	19	.027	1.6500	.2073	3.0927

Verbal skills of females were significantly higher this year than over the last 2 years,  $t(19) = 2.39, p = .027$ .

```
T-TEST
  /TESTVAL=0
  /MISSING=ANALYSIS
  /VARIABLES=ncorrect
  /CRITERIA=CIN (.95) .
```

### T-Test

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
NCORRECT	20	10.6500	3.0826	.6893

Only the 95% CI is correct in the following output.

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
NCORRECT	15.451	19	.000	10.6500	9.2073	12.0927

We can be 95% confident that the verbal skills of females, as measured by mean number of correctly unscrambled sentences, was at least 9.21 and at most 12.09 sentences.