Weighted Composite Test Reliablity

The reliability for a combination of tests, each of which has its own estimate of reliability and a weight assigned to it, may be computed. This composite will typically be greater than any one test by itself due to the likelihood that the subtests are correlated positively among themselves. Since teachers typically assign course grades based on a combination of individual tests administered over the time period of a course, this reliability estimate in built into the Grading System. See the description and examples in that section.

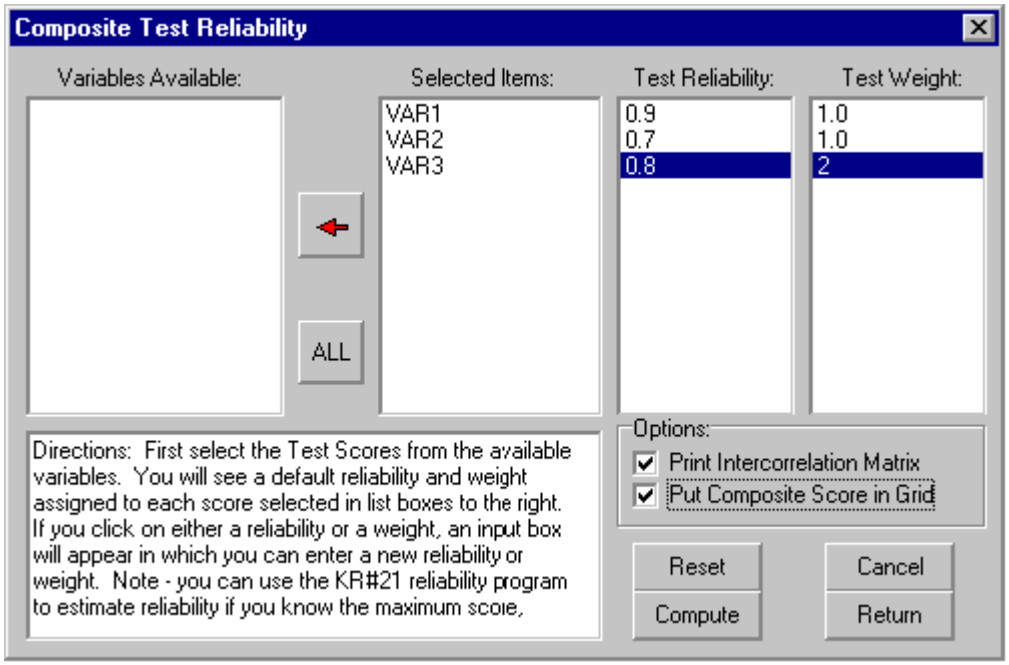

Figure 1 Composite Test Reliability Dialog

Composite Test Reliability

File Analyzed: C:\Projects\comprel.tex

```
Correlations Among Tests with   10 cases.


Variables
                  VAR1          VAR2          VAR3
      VAR1        1.000         0.939         0.152
      VAR2        0.939         1.000         0.139
       VAR3       0.152         0.139         1.000



Means with   10 valid cases.

Variables         VAR1          VAR2          VAR3
                  5.500         5.500         5.500
```

Variances with 10 valid cases.

Variables	VAR1	VAR2	VAR3
	9.167	9.167	9.167

Standard Deviations with 10 valid cases.

Variables	VAR1	VAR2	VAR3
	3.028	3.028	3.028

Test Weights with 10 valid cases.

Variables	VAR1	VAR2	VAR3
	1.000	1.000	2.000

Test Reliabilities with 10 valid cases.

Variables	VAR1	VAR2	VAR3
	0.900	0.700	0.800

Composite reliability = 0.871