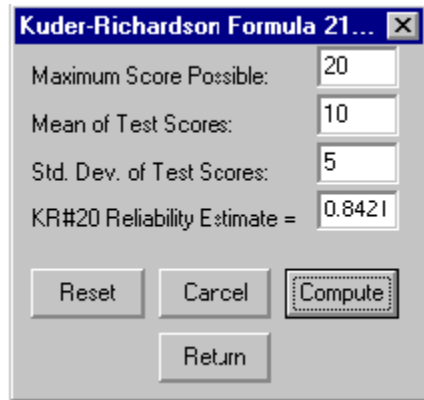


Kuder-Richardson #21 Reliability

The Kuder-Richardson formula #20 was developed from Classical Test Theory (true-score theory). A shorter form of the estimate can be made using only the mean, standard deviation and number of test items if one can assume that the inter-item covariances are equal. Below is the form which appears when this procedure is selected from the Measurement option of the Analyses menu:



The image shows a dialog box titled "Kuder-Richardson Formula 21...". It contains four input fields: "Maximum Score Possible:" with the value 20, "Mean of Test Scores:" with the value 10, "Std. Dev. of Test Scores:" with the value 5, and "KR#20 Reliability Estimate =" with the value 0.8421. Below the input fields are four buttons: "Reset", "Cancel", "Compute", and "Return". The "Compute" button is highlighted with a dashed border.

Field	Value
Maximum Score Possible:	20
Mean of Test Scores:	10
Std. Dev. of Test Scores:	5
KR#20 Reliability Estimate =	0.8421

Figure 1 Kuder-Richardson Formula 20 Reliability

Note that we have entered the maximum score (total number of items), the test mean, and the test standard deviation. When you click the Compute button, the estimate is shown in the labeled box.