

## APPENDIX 12

### Reliability of Posttest 1

The statistical formula is:

$$R = 1 - \frac{6 \cdot \sum D^2}{N \cdot (\sum 1^2 - 1)}$$

$$R = 1 - \frac{6 \cdot 12}{30 \cdot (10^2 - 1)}$$

$$R = 1 - \frac{6 \cdot 12}{30 \cdot (100 - 1)}$$

$$R = 1 - \frac{6 \cdot 12}{30.899}$$

$$R = 1 - \frac{3672}{30.899}$$

$$R = 1 - \frac{3671}{26970}$$

$$R = 1 - 0.13$$

$$R = 0.87$$

**R = Reliability**

**N = Number of students**

**D = The different of rank correlation**

**1-6 = Constant number**

**(Shohamy, 1985)**

*It means that this posttest has very high reliability*

