

APPENDIX 14

Reliability of Posttest 3

The statistical formula is:

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

$$R = 1 - \frac{6 \cdot (28)}{30 \cdot (10^2 - 1)}$$

$$R = 1 - \frac{6 \cdot (28)}{30 \cdot (100 - 1)}$$

$$R = 1 - \frac{6 \cdot (28)}{30.899}$$

$$R = 1 - \frac{768}{30.899}$$

$$R = 1 - \frac{768}{26970}$$

$$R = 1 - 0.02$$

$$R = 0.98$$

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