Appendix 5. The Computation of Reliability of Try Out Test

The Computation of Reliability of Try Out Test

$$r_{xy} = \frac{N\sum XY - (\sum X)(\sum Y)}{\sqrt{\{N\sum X^2 - (\sum X)^2\}\{N\sum Y^2 - (\sum Y)^2\}}}$$

$$= \frac{(29 \times 4203) - (340 \times 351)}{\sqrt{(29 \times 4136 - 340\ ^{\wedge}2)(29 \times 4371 - 351\ ^{\wedge}2)}}$$

$$= \frac{(121887) - (119340)}{\sqrt{(119944 - 115600)(126759 - 123201)}}$$

$$= \frac{2547}{\sqrt{15455952}} = 0.647859848$$

$$= \frac{2 \times 0.6479}{1 + 0.6479} = \mathbf{0.78630455}$$

$$r_{11} = \frac{2r_{xy}}{1 + r_{xy}} = \frac{2 \times 0.6479}{1 + 0.6479} = \mathbf{0.78630455}$$

The criteria are:

0.00-0.19	Very low reliability	0.60-0.79	High reliability
0.20-0.39	Low reliability	0.80-1.00	Very high reliability
0.40-0.59	Average reliability		