Appendix 9

The Reliability of Grammar mastery

$$N = 36$$

$$\sum Y = 579$$

$$\sum X^2 = 11391$$

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$$\sum Y = 579$$
 $\sum X^2 = 11391$ $(\sum X)^2 = 388129$

$$\Sigma X = 623$$

$$\sum XY = 10323$$

$$\sum Y^2 = 9807$$

$$\sum X = 623$$
 $\sum XY = 10323$ $\sum Y^2 = 9807$ $(\sum Y)^2 = 335281$

Product moment by Pearson

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

$$rxy = \frac{}{\sqrt{(36 \times 11391 - (388129)(36 \times 9807 - (335281))}}$$

$$rxy = \frac{}{\sqrt{(21947)(360717)}}$$

$$rxy = 0.551$$

Sperman – Brown's Formula (Split half)

$$r11 = \frac{2 \times r^{1/2} \cdot \frac{1}{2}}{(1 + r^{1/2} \cdot \frac{1}{2})}$$

$$r11 = 0.71$$

The result of the coefficient correlation of the test is 0.71.

Based on the calculation of reliability, the result of the coefficient correlation of the test is 0.71 (high). It can be concluded that the test is reliable