

Lampiran 6

Hasil Uji Coba Reliabilitas Variabel Kebiasaan Belajar (X_1) Secara Manual

Reliabilitas angket dengan rumus *Alpha Cronbach* dan jumlah varian butir soal di cari dengan rumus berikut:

$$\sigma_i^2 = \frac{\sum X_i^2 - \frac{(\sum X_i)^2}{N}}{N}$$

$$\sigma_{15}^2 = \frac{54 - \frac{(24)^2}{12}}{12} = \frac{54 - 48}{12} = 0,5$$

$$\sigma_1^2 = \frac{66 - \frac{(26)^2}{12}}{12} = \frac{66 - 56,3}{12} = 0,808$$

$$\sigma_{16}^2 = \frac{58 - \frac{(24)^2}{12}}{12} = \frac{58 - 48}{12} = 0,83$$

$$\sigma_2^2 = \frac{62 - \frac{(26)^2}{12}}{12} = \frac{62 - 56,3}{12} = 0,475$$

$$\sigma_{17}^2 = \frac{55 - \frac{(25)^2}{12}}{12} = \frac{55 - 52,08}{12} = 0,243$$

$$\sigma_3^2 = \frac{59 - \frac{(25)^2}{12}}{12} = \frac{59 - 52,08}{12} = 0,577$$

$$\sigma_{18}^2 = \frac{57 - \frac{(25)^2}{12}}{12} = \frac{57 - 52,08}{12} = 0,41$$

$$\sigma_4^2 = \frac{70 - \frac{(28)^2}{12}}{12} = \frac{70 - 65,3}{12} = 0,391$$

$$\sigma_{19}^2 = \frac{40 - \frac{(20)^2}{12}}{12} = \frac{40 - 33,33}{12} = 0,555$$

$$\sigma_5^2 = \frac{78 - \frac{(30)^2}{12}}{12} = \frac{78 - 75}{12} = 0,25$$

$$\sigma_{20}^2 = \frac{66 - \frac{(26)^2}{12}}{12} = \frac{66 - 56,3}{12} = 0,808$$

$$\sigma_6^2 = \frac{57 - \frac{(25)^2}{12}}{12} = \frac{57 - 52,08}{12} = 0,41$$

$$\sigma_{21}^2 = \frac{78 - \frac{(30)^2}{12}}{12} = \frac{78 - 75}{12} = 0,25$$

$$\sigma_7^2 = \frac{61 - \frac{(25)^2}{12}}{12} = \frac{61 - 52,08}{12} = 0,74$$

$$\sigma_{22}^2 = \frac{51 - \frac{(23)^2}{12}}{12} = \frac{51 - 44,08}{12} = 0,577$$

$$\sigma_8^2 = \frac{62 - \frac{(26)^2}{12}}{12} = \frac{62 - 56,3}{12} = 0,475$$

$$\sigma_{23}^2 = \frac{67 - \frac{(27)^2}{12}}{12} = \frac{67 - 60,75}{12} = 0,52$$

$$\sigma_9^2 = \frac{55 - \frac{(25)^2}{12}}{12} = \frac{55 - 52,08}{12} = 0,243$$

$$\sigma_{24}^2 = \frac{56 - \frac{(24)^2}{12}}{12} = \frac{56 - 48}{12} = 0,667$$

$$\sigma_{10}^2 = \frac{63 - \frac{(26)^2}{12}}{12} = \frac{62 - 56,3}{12} = 0,475$$

$$\sigma_{25}^2 = \frac{53 - \frac{(23)^2}{12}}{12} = \frac{53 - 44,08}{12} = 0,743,$$

$$\sigma_{11}^2 = \frac{72 - \frac{(28)^2}{12}}{12} = \frac{72 - 65,3}{12} = 0,558$$

$$\sigma_{26}^2 = \frac{58 - \frac{(24)^2}{12}}{12} = \frac{58 - 48}{12} = 0,833$$

$$\sigma_{12}^2 = \frac{51 - \frac{(23)^2}{12}}{12} = \frac{51 - 44,08}{12} = 0,577$$

$$\sigma_{27}^2 = \frac{60 - \frac{(26)^2}{12}}{12} = \frac{60 - 56,3}{12} = 0,308$$

$$\sigma_{13}^2 = \frac{59 - \frac{(25)^2}{12}}{12} = \frac{59 - 52,08}{12} = 0,577$$

$$\sigma_{28}^2 = \frac{72 - \frac{(28)^2}{12}}{12} = \frac{72 - 65,33}{12} = 0,55$$

$$\sigma_{14}^2 = \frac{72 - \frac{(28)^2}{12}}{12} = \frac{72 - 65,3}{12} = 0,558$$

Jumlah total varians item

$$\sigma_t^2 = 0,808 + 0,475 + 0,577 + 0,391 + 0,25 + 0,41 + 0,74 \\ + 0,475 + 0,243 + 0,475 + 0,558 + 0,577 + 0,577 + 0, \\ 558 + 0,5 + 0,83 + 0,243 + 0,41 + 0,55 + 0,808 + 0,25 \\ + 0,577 + 0,52 + 0,667 + 0,743 + 0,833 + 0,308 + 55$$

$$\sigma_t^2 = 14,9$$

Varian total item

$$\sigma_t^2 = \frac{43881 - \frac{(707)^2}{12}}{12} = \frac{43881 - 41654,08}{12} \\ = 185,57$$

Menghitung nilai Alpha dengan rumus

$$r_{11} = \left(\frac{k}{k-1} \right) \left(1 - \frac{\Sigma \sigma_i^2}{\sigma_t^2} \right)$$

$$r_{11} = \left(\frac{12}{12-1} \right) \left(1 - \frac{14,9}{185,57} \right)$$

$$r_{11} = (1,09)(1 - 0,08)$$

$$r_{11} = (1,09)(0,9)$$

$$r_{11} = 0,98 \text{ (Reliabilitas Sangat Tinggi)}$$