Manip Validitas Reliabilitas Homogenitas

1. Validitas

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Correlations** | | | | | | | |
|  | | Pre1 | Pre2 | Pre3 | Pre4 | Pre5 | Total\_Pretest |
| Pre1 | Pearson Correlation | 1 | .322 | .708\*\* | .471\* | .204 | .720\*\* |
| Sig. (2-tailed) |  | .125 | .000 | .020 | .340 | .000 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Pre2 | Pearson Correlation | .322 | 1 | .357 | .684\*\* | .256 | .725\*\* |
| Sig. (2-tailed) | .125 |  | .086 | .000 | .228 | .000 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Pre3 | Pearson Correlation | .708\*\* | .357 | 1 | .657\*\* | .496\* | .841\*\* |
| Sig. (2-tailed) | .000 | .086 |  | .000 | .014 | .000 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Pre4 | Pearson Correlation | .471\* | .684\*\* | .657\*\* | 1 | .408\* | .866\*\* |
| Sig. (2-tailed) | .020 | .000 | .000 |  | .048 | .000 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Pre5 | Pearson Correlation | .204 | .256 | .496\* | .408\* | 1 | .602\*\* |
| Sig. (2-tailed) | .340 | .228 | .014 | .048 |  | .002 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Total\_Pretest | Pearson Correlation | .720\*\* | .725\*\* | .841\*\* | .866\*\* | .602\*\* | 1 |
| Sig. (2-tailed) | .000 | .000 | .000 | .000 | .002 |  |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| \*\*. Correlation is significant at the 0.01 level (2-tailed). | | | | | | | |
| \*. Correlation is significant at the 0.05 level (2-tailed). | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Correlations** | | | | | | | |
|  | | Post1 | Post2 | Post3 | Post4 | Post5 | Total\_Posttest |
| Post1 | Pearson Correlation | 1 | .457\* | .418\* | .039 | .495\* | .715\*\* |
| Sig. (2-tailed) |  | .025 | .042 | .856 | .014 | .000 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Post2 | Pearson Correlation | .457\* | 1 | -.035 | .239 | .205 | .504\* |
| Sig. (2-tailed) | .025 |  | .872 | .261 | .337 | .012 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Post3 | Pearson Correlation | .418\* | -.035 | 1 | .352 | .504\* | .713\*\* |
| Sig. (2-tailed) | .042 | .872 |  | .092 | .012 | .000 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Post4 | Pearson Correlation | .039 | .239 | .352 | 1 | .269 | .616\*\* |
| Sig. (2-tailed) | .856 | .261 | .092 |  | .203 | .001 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Post5 | Pearson Correlation | .495\* | .205 | .504\* | .269 | 1 | .737\*\* |
| Sig. (2-tailed) | .014 | .337 | .012 | .203 |  | .000 |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| Total\_Posttest | Pearson Correlation | .715\*\* | .504\* | .713\*\* | .616\*\* | .737\*\* | 1 |
| Sig. (2-tailed) | .000 | .012 | .000 | .001 | .000 |  |
| N | 24 | 24 | 24 | 24 | 24 | 24 |
| \*. Correlation is significant at the 0.05 level (2-tailed). | | | | | | | |
| \*\*. Correlation is significant at the 0.01 level (2-tailed). | | | | | | | |

Validitas item ditunjukkan dengan adanya korelasi atau dukungan terhadap item total (skor total), perhitungan dilakukan dengan cara mengkorelasikan antara skor item dengan skor total item. Korelasi dikatakan signifikan apabila niai signifikansi kurang dari alpha (taraf signfiikansi) yang mana dalam hal ini digunkaan taraf signifikansi 5%. Berdaskan output diatas maka dapat dirangkum hasil seperti berikut.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Item | r | sig | Validitas |  | Item | r | sig | Validitas |
| Pre1 | 0.720 | 0.000 | Valid |  | Post1 | 0.715 | 0.000 | Valid |
| Pre2 | 0.725 | 0.000 | Valid |  | Post2 | 0.504 | 0.012 | Valid |
| Pre3 | 0.841 | 0.000 | Valid |  | Post3 | 0.713 | 0.000 | Valid |
| Pre4 | 0.866 | 0.000 | Valid |  | Post4 | 0.616 | 0.001 | Valid |
| Pre5 | 0.602 | 0.002 | Valid |  | Post5 | 0.737 | 0.000 | Valid |

Berdaskan hasil rangkuman diatas didapat hasil bahwa seluruh item telah valid ditunjukan dengan nilai signifikansi yang lebih kecil dari taraf signifikansi yang artinya terdapat korelasi antara item dengan total.

1. Reliabilitas

|  |  |
| --- | --- |
| Variabel Pretest | Variabel Posttest |
| |  |  | | --- | --- | | **Reliability Statistics** | | | Cronbach's Alpha | N of Items | | .804 | 5 | | |  |  | | --- | --- | | **Reliability Statistics** | | | Cronbach's Alpha | N of Items | | .666 | 5 | |

Reliabilitas ditunjukan oleh koefisien reliabilitas yaitu Cronbach alpha. Kesepakatan secara umum reliabilitas yang dianggap sudah cukup memuaskan jika ≥ 0.600. Kedua variabel yang dimiliki memiliki nilai Cronbach alpha berilai 0.804 dan 0.666 yang mana nilai tersebut telah lebih besar dari batas 0.600 sehingga dapat disimpulkan kedua instrument variabel telah reliabel.

1. Homogenitas

Hipotesis

H0 : data homogen

H1 : data tidak homogen

Output

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variance** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| Nilai | Based on Mean | 3.702 | 1 | 46 | .061 |
| Based on Median | 2.188 | 1 | 46 | .146 |
| Based on Median and with adjusted df | 2.188 | 1 | 38.406 | .147 |
| Based on trimmed mean | 3.656 | 1 | 46 | .062 |

Interpretasi

Berdaskan output diketahui statistik uji levene bernilai 3.702 dengan nilai signifikansi 0.061. Pada pengujian ini diambil keputusan tolak H0 jika nilai signifikansi lebih kecil dari taraf signifikansi (α = 0.05). Diketahui nilai signifikansi (0.061) lebih besar dari taraf signifikansi (0.05) maka diambil keputusan gagal tolak H0 sehingga dapat disimpulkan data telah homogen.