**Lampiran 2. Analisis Data**

**UJI N-GAIN KREATIVITAS ILMIAH**

**N-gain Kelas Eksperimen**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Nama | *Fluency* | | | *Flexibility* | | | *Originality* | | |
| Pretes | Postes | N gain | Pretes | Postes | Ngain | Pretest | Postes | N-gain |
| 1 | ANS | 70 | 95 | 0,83 | 55,56 | 77,78 | 0,50 | 30,61 | 53,06 | 0,32 |
| 2 | APP | 30 | 75 | 0,64 | 30,56 | 63,89 | 0,48 | 20,41 | 51,02 | 0,38 |
| 3 | APR | 85 | 95 | 0,67 | 36,11 | 80,56 | 0,70 | 24,49 | 53,06 | 0,38 |
| 4 | AFA | 80 | 90 | 0,50 | 41,67 | 83,33 | 0,71 | 30,61 | 67,35 | 0,53 |
| 5 | CHP | 35 | 100 | 1,00 | 33,33 | 83,33 | 0,75 | 28,57 | 59,18 | 0,43 |
| 6 | DYW | 85 | 100 | 1,00 | 47,22 | 75,00 | 0,53 | 34,69 | 59,18 | 0,38 |
| 7 | ESD | 65 | 90 | 0,71 | 55,56 | 80,56 | 0,56 | 30,61 | 65,31 | 0,50 |
| 8 | EBD | 40 | 100 | 1,00 | 30,56 | 91,67 | 0,88 | 20,41 | 73,47 | 0,67 |
| 9 | FKR | 85 | 95 | 0,67 | 38,89 | 80,56 | 0,68 | 24,49 | 61,22 | 0,49 |
| 10 | FM | 70 | 80 | 0,33 | 33,33 | 69,44 | 0,54 | 20,41 | 53,06 | 0,41 |
| 11 | GAF | 75 | 95 | 0,80 | 41,67 | 69,44 | 0,48 | 24,49 | 51,02 | 0,35 |
| 12 | HMRP | 75 | 95 | 0,80 | 52,78 | 69,44 | 0,35 | 28,57 | 51,02 | 0,31 |
| 13 | IYT | 85 | 95 | 0,67 | 41,67 | 83,33 | 0,71 | 28,57 | 55,10 | 0,37 |
| 14 | JBN | 65 | 85 | 0,57 | 38,89 | 69,44 | 0,50 | 22,45 | 57,14 | 0,45 |
| 15 | MAP | 50 | 80 | 0,60 | 52,78 | 66,67 | 0,29 | 26,53 | 53,06 | 0,36 |
| 16 | MCP | 30 | 70 | 0,57 | 30,56 | 72,22 | 0,60 | 16,33 | 48,98 | 0,39 |
| 17 | ME | 35 | 70 | 0,54 | 33,33 | 72,22 | 0,58 | 22,45 | 55,10 | 0,42 |
| 18 | MAA | 50 | 75 | 0,50 | 47,22 | 69,44 | 0,42 | 28,57 | 48,98 | 0,29 |
| 19 | MPR | 90 | 100 | 1,00 | 50,00 | 97,22 | 0,94 | 36,73 | 75,51 | 0,61 |
| 20 | MRG | 55 | 100 | 1,00 | 36,11 | 77,78 | 0,65 | 24,49 | 57,14 | 0,43 |
| 21 | R | 50 | 90 | 0,80 | 38,89 | 66,67 | 0,45 | 20,41 | 57,14 | 0,46 |
| 22 | RMI | 30 | 80 | 0,71 | 44,44 | 75,00 | 0,55 | 20,41 | 55,10 | 0,44 |
| 23 | SAS | 80 | 95 | 0,75 | 36,11 | 69,44 | 0,52 | 30,61 | 51,02 | 0,29 |
| 24 | NAZ | 35 | 70 | 0,54 | 33,33 | 77,78 | 0,67 | 16,33 | 51,02 | 0,41 |
| 25 | SVP | 50 | 75 | 0,50 | 33,33 | 55,56 | 0,33 | 20,41 | 46,94 | 0,33 |
| 26 | FF | 80 | 100 | 1,00 | 41,67 | 75,00 | 0,57 | 30,61 | 65,31 | 0,50 |
| 27 | PAD | 75 | 85 | 0,40 | 50,00 | 66,67 | 0,33 | 30,61 | 48,98 | 0,26 |
| 28 | GSAS | 35 | 70 | 0,54 | 33,33 | 61,11 | 0,42 | 24,49 | 51,02 | 0,35 |
| 29 | DAS | 60 | 80 | 0,50 | 61,11 | 77,78 | 0,43 | 36,73 | 55,10 | 0,29 |
|  | Rata-rata | 60,34 | 87,24 | 0,68 | 41,38 | 74,43 | 0,56 | 26,04 | 56,23 | 0,41 |
|  | Kriteria |  |  | sedang |  |  | sedang |  |  | sedang |

Rangkuman N-gain Kreativitas Ilmiah Siswa

|  |  |  |
| --- | --- | --- |
| No | Indikator Kreativitas | N-gain Score |
| 1 | *Fluency* | 0,68 |
| 2 | *Flexibility* | 0,56 |
| 3 | *Originality* | 0,41 |
|  | Rata-rata | 0,55 |

**N-gain Kelas Kontrol**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Nama | *Fleuency* | | | *Flexibility* | | | *Originality* | | |
| Pretes | Postes | Ngain | Pretes | Postes | Ngain | Pretes | Postes | Ngain |
| 1 | ASNBB | 55 | 65 | 0,22 | 32,43 | 51,35 | 0,28 | 22,45 | 34,69 | 0,16 |
| 2 | AWH | 75 | 85 | 0,40 | 54,05 | 75,68 | 0,47 | 32,65 | 46,94 | 0,21 |
| 3 | AAR | 40 | 75 | 0,58 | 24,32 | 48,65 | 0,32 | 18,37 | 36,73 | 0,23 |
| 4 | AA | 85 | 95 | 0,67 | 51,35 | 62,16 | 0,22 | 30,61 | 40,82 | 0,15 |
| 5 | AZAM | 55 | 55 | 0,00 | 35,14 | 51,35 | 0,25 | 22,45 | 34,69 | 0,16 |
| 6 | DHDA | 35 | 40 | 0,08 | 32,43 | 40,54 | 0,12 | 16,33 | 26,53 | 0,12 |
| 7 | EAP | 75 | 90 | 0,60 | 45,95 | 56,76 | 0,20 | 36,73 | 46,94 | 0,16 |
| 8 | EHC | 60 | 65 | 0,13 | 40,54 | 51,35 | 0,18 | 34,69 | 38,78 | 0,06 |
| 9 | FRP | 90 | 95 | 0,50 | 56,76 | 72,97 | 0,38 | 32,65 | 55,10 | 0,33 |
| 10 | FNM | 55 | 60 | 0,11 | 35,14 | 40,54 | 0,08 | 20,41 | 26,53 | 0,08 |
| 11 | FRA | 80 | 85 | 0,25 | 51,35 | 75,68 | 0,50 | 30,61 | 42,86 | 0,18 |
| 12 | FUA | 60 | 75 | 0,38 | 37,84 | 48,65 | 0,17 | 24,49 | 38,78 | 0,19 |
| 13 | FR | 75 | 70 | -0,20 | 40,54 | 54,05 | 0,23 | 22,45 | 34,69 | 0,16 |
| 14 | GDH | 40 | 50 | 0,17 | 48,65 | 51,35 | 0,05 | 26,53 | 38,78 | 0,17 |
| 15 | HSH | 35 | 55 | 0,31 | 27,03 | 48,65 | 0,30 | 18,37 | 34,69 | 0,20 |
| 16 | HFR | 80 | 95 | 0,75 | 43,24 | 64,86 | 0,38 | 32,65 | 42,86 | 0,15 |
| 17 | IFD | 70 | 95 | 0,83 | 48,65 | 70,27 | 0,42 | 28,57 | 48,98 | 0,29 |
| 18 | KNPD | 25 | 45 | 0,27 | 18,92 | 43,24 | 0,30 | 16,33 | 32,65 | 0,20 |
| 19 | MCA | 90 | 100 | 1,00 | 48,65 | 62,16 | 0,26 | 40,82 | 40,82 | 0,00 |
| 20 | MA | 45 | 55 | 0,18 | 32,43 | 45,95 | 0,20 | 24,49 | 38,78 | 0,19 |
| 21 | MFAF | 65 | 80 | 0,43 | 37,84 | 67,57 | 0,48 | 28,57 | 44,90 | 0,23 |
| 22 | OYEA | 70 | 90 | 0,67 | 35,14 | 59,46 | 0,38 | 18,37 | 36,73 | 0,23 |
| 23 | PAPH | 55 | 60 | 0,11 | 35,14 | 43,24 | 0,13 | 24,49 | 32,65 | 0,11 |
| 24 | RRF | 55 | 55 | 0,00 | 37,84 | 43,24 | 0,09 | 26,53 | 34,69 | 0,11 |
| 25 | SS | 60 | 75 | 0,38 | 35,14 | 64,86 | 0,46 | 22,45 | 46,94 | 0,32 |
| 26 | SGR | 70 | 95 | 0,83 | 45,95 | 59,46 | 0,25 | 30,61 | 38,78 | 0,12 |
| 27 | SAM | 65 | 75 | 0,29 | 43,24 | 51,35 | 0,14 | 20,41 | 32,65 | 0,15 |
| 28 | SKM | 80 | 90 | 0,50 | 40,54 | 54,05 | 0,23 | 28,57 | 38,78 | 0,14 |
| 29 | VDPD | 65 | 70 | 0,14 | 40,54 | 64,86 | 0,41 | 24,49 | 48,98 | 0,32 |
| 30 | ZYR | 45 | 70 | 0,45 | 27,03 | 43,24 | 0,22 | 16,33 | 34,69 | 0,22 |
| 31 | ZIF | 65 | 70 | 0,14 | 43,24 | 51,35 | 0,14 | 26,53 | 40,82 | 0,19 |
|  | Rata-Rata | 61,94 | 73,55 | 0,31 | 39,58 | 55,45 | 0,26 | 25,81 | 39,10 | 0,18 |
|  | Kriteria |  |  | sedang |  |  | rendah |  |  | rendah |

Rangkuman N-gain Kreativitas Ilmiah Siswa

|  |  |  |
| --- | --- | --- |
| No | Indikator Kreativitas | N-gain Score |
| 1 | *Fluency* | 0,31 |
| 2 | *Flexibility* | 0,26 |
| 3 | *Originality* | 0,18 |
|  | Rata-rata | 0,25 |

**UJI SIGNIFIKANSI N-GAIN KREATIVITAS ILMIAH**

1. **Uji Normalitas N-gain**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normality** | | | | | | | |
|  | Kelas | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| Skor Ngain | EKsperimen | .140 | 29 | .150 | .947 | 29 | .154 |
| Kontrol | .105 | 31 | .200\* | .952 | 31 | .180 |
| \*. This is a lower bound of the true significance. | | | | | | | |
| a. Lilliefors Significance Correction | | | | | | | |

Sig N-gain kelas eksperimen 0,154 > 0,05 maka skor N-gain berdistribusi normal

Sig N-gain kelas kontrol 0,180 > 0,05 maka skor N-gain berdistribusi normal

1. **Uji Homogenitas N-gain**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variance** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| Skor Ngain | Based on Mean | .606 | 1 | 58 | .439 |
| Based on Median | .535 | 1 | 58 | .468 |
| Based on Median and with adjusted df | .535 | 1 | 55.609 | .468 |
| Based on trimmed mean | .635 | 1 | 58 | .429 |

Sig N-gain 0,439 > 0,05 maka skor N-gain kedua kelas homogen

1. **Uji Independent Sample Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Kelas | N | Mean | Std. Deviation | Std. Error Mean |
| Skor Ngain | EKsperimen | 29 | 55.24 | 12.498 | 2.321 |
| Kontrol | 31 | 26.77 | 12.561 | 2.256 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | | | | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means | | | | | | |
| F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Skor Ngain | Equal variances assumed | .606 | .439 | 8.794 | 58 | .000 | 28.467 | 3.237 | 21.987 | 34.947 |
| Equal variances not assumed |  |  | 8.795 | 57.772 | .000 | 28.467 | 3.237 | 21.988 | 34.946 |

Nilai Sig (2-tailed) 0,00 < 0,05 maka **ada perbedaan yang signifikan** N-gain kreativitas ilmiah kelas eksperimen dan kelas kontrol