**Pretest Literasi Sains Kelas Eksperimen dan Kontrol**

| **Tests of Normality** |
| --- |
|  | Kelas | Kolmogorov-Smirnova | Shapiro-Wilk |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| Pretes | Eksperimen | .144 | 28 | .143 | .954 | 28 | .247 |
| Kontrol | .151 | 28 | .099 | .957 | 28 | .292 |
| a. Lilliefors Significance Correction |

| **Test of Homogeneity of Variance** |
| --- |
|  |  | Levene Statistic | df1 | df2 | Sig. |
| Pretes | Based on Mean | .091 | 1 | 54 | .764 |
| Based on Median | .092 | 1 | 54 | .763 |
| Based on Median and with adjusted df | .092 | 1 | 53.611 | .763 |
| Based on trimmed mean | .063 | 1 | 54 | .803 |

| **Group Statistics** |
| --- |
|  | Kelas | N | Mean | Std. Deviation | Std. Error Mean |
| Pretes | Eksperimen | 28 | 49.00 | 10.812 | 2.043 |
| Kontrol | 28 | 45.29 | 10.835 | 2.048 |

| **Independent Samples Test** |
| --- |
|  |  | Levene's Test for Equality of Variances | t-test for Equality of Means |
|  |  |  |  | 95% Confidence Interval of the Difference |
|  |  | F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | Lower | Upper |
| Pretes | Equal variances assumed | .091 | .764 | 1.284 | 54 | .205 | 3.714 | 2.893 | -2.085 | 9.514 |
| Equal variances not assumed |  |  | 1.284 | 54.000 | .205 | 3.714 | 2.893 | -2.085 | 9.514 |

**Pretest Sikap Sains Kelas Eksperimen dan Kontrol**

| **Tests of Normality** |
| --- |
|  | Kelas | Kolmogorov-Smirnova | Shapiro-Wilk |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| Pretest | Eksperimen | .130 | 28 | .200\* | .950 | 28 | .194 |
| Kontrol | .173 | 28 | .031 | .932 | 28 | .070 |
| a. Lilliefors Significance Correction |
| \*. This is a lower bound of the true significance. |

| **Test of Homogeneity of Variance** |
| --- |
|  |  | Levene Statistic | df1 | df2 | Sig. |
| Pretest | Based on Mean | 2.140 | 1 | 54 | .149 |
| Based on Median | 1.637 | 1 | 54 | .206 |
| Based on Median and with adjusted df | 1.637 | 1 | 48.760 | .207 |
| Based on trimmed mean | 2.220 | 1 | 54 | .142 |

**Mann-Whitney Test**

| **Ranks** |
| --- |
|  | Kelas | N | Mean Rank | Sum of Ranks |
| Pretest | Eksperimen | 28 | 30.45 | 852.50 |
| Kontrol | 28 | 26.55 | 743.50 |
| Total | 56 |  |  |

| **Test Statisticsa** |
| --- |
|  | Pretest |
| Mann-Whitney U | 337.500 |
| Wilcoxon W | 743.500 |
| Z | -.898 |
| Asymp. Sig. (2-tailed) | .369 |
| a. Grouping Variable: Kelas |

**N\_Gain Literasi Sains Kelas Eksperimen dan Kontrol**

| **Tests of Normality** |
| --- |
|  | Kelas | Kolmogorov-Smirnova | Shapiro-Wilk |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| N\_Gain | Eksperimen | .104 | 28 | .200\* | .961 | 28 | .364 |
| Kontrol | .094 | 28 | .200\* | .938 | 28 | .100 |
| a. Lilliefors Significance Correction |
| \*. This is a lower bound of the true significance. |

| **Test of Homogeneity of Variance** |
| --- |
|  |  | Levene Statistic | df1 | df2 | Sig. |
| N\_Gain | Based on Mean | 1.803 | 1 | 54 | .185 |
| Based on Median | 1.590 | 1 | 54 | .213 |
| Based on Median and with adjusted df | 1.590 | 1 | 53.396 | .213 |
| Based on trimmed mean | 1.647 | 1 | 54 | .205 |

| **Group Statistics** |
| --- |
|  | Kelas | N | Mean | Std. Deviation | Std. Error Mean |
| N\_Gain | Eksperimen | 28 | 30.1050 | 13.63515 | 2.57680 |
| Kontrol | 28 | 22.0500 | 16.72916 | 3.16151 |

| **Independent Samples Test** |
| --- |
|  |  | Levene's Test for Equality of Variances | t-test for Equality of Means |
|  |  |  |  | 95% Confidence Interval of the Difference |
|  |  | F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | Lower | Upper |
| N\_Gain | Equal variances assumed | 1.803 | .185 | 1.975 | 54 | .053 | 8.05500 | 4.07861 | -.12213 | 16.23213 |
| Equal variances not assumed |  |  | 1.975 | 51.889 | .054 | 8.05500 | 4.07861 | -.12975 | 16.23975 |

**N\_Gain Sikap Sains Kelas Eksperimen dan Kontrol**

| **Descriptives** |
| --- |
|  | Kelas | Statistic | Std. Error |
| N\_Gain | Eksperimen | Mean | 39.93 | 2.059 |
| 95% Confidence Interval for Mean | Lower Bound | 35.70 |  |
| Upper Bound | 44.15 |  |
| 5% Trimmed Mean | 39.63 |  |
| Median | 38.68 |  |
| Variance | 118.729 |  |
| Std. Deviation | 10.896 |  |
| Minimum | 21 |  |
| Maximum | 64 |  |
| Range | 43 |  |
| Interquartile Range | 15 |  |
| Skewness | .476 | .441 |
| Kurtosis | -.050 | .858 |
| Kontrol | Mean | 28.82 | 2.325 |
| 95% Confidence Interval for Mean | Lower Bound | 24.05 |  |
| Upper Bound | 33.59 |  |
| 5% Trimmed Mean | 28.52 |  |
| Median | 28.99 |  |
| Variance | 151.374 |  |
| Std. Deviation | 12.303 |  |
| Minimum | 10 |  |
| Maximum | 53 |  |
| Range | 43 |  |
| Interquartile Range | 20 |  |
| Skewness | .267 | .441 |
| Kurtosis | -.721 | .858 |

| **Tests of Normality** |
| --- |
|  | Kelas | Kolmogorov-Smirnova | Shapiro-Wilk |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| N\_Gain | Eksperimen | .140 | 28 | .168 | .970 | 28 | .572 |
| Kontrol | .108 | 28 | .200\* | .966 | 28 | .477 |
| a. Lilliefors Significance Correction |
| \*. This is a lower bound of the true significance. |

| **Test of Homogeneity of Variance** |
| --- |
|  |  | Levene Statistic | df1 | df2 | Sig. |
| N\_Gain | Based on Mean | .912 | 1 | 54 | .344 |
| Based on Median | .961 | 1 | 54 | .331 |
| Based on Median and with adjusted df | .961 | 1 | 53.929 | .331 |
| Based on trimmed mean | .933 | 1 | 54 | .339 |

| **Group Statistics** |
| --- |
|  | Kelas | N | Mean | Std. Deviation | Std. Error Mean |
| N\_Gain | Eksperimen | 28 | 39.93 | 10.896 | 2.059 |
| Kontrol | 28 | 28.82 | 12.303 | 2.325 |

| **Independent Samples Test** |
| --- |
|  |  | Levene's Test for Equality of Variances | t-test for Equality of Means |
|  |  |  |  | 95% Confidence Interval of the Difference |
|  |  | F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | Lower | Upper |
| N\_Gain | Equal variances assumed | .912 | .344 | 3.576 | 54 | .001 | 11.106 | 3.106 | 4.879 | 17.333 |
| Equal variances not assumed |  |  | 3.576 | 53.223 | .001 | 11.106 | 3.106 | 4.877 | 17.335 |