**Data Mentah / Olah Data**

1. **Descriptive statistic**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Data *Pretest* dan *Posttest* Kelas Kontrol dan Kelas Eksperimen** | | | | | |
|  | N | Minimum | Maximum | Mean | Std. Deviation |
| *Pretest* kontrol | 26 | 20 | 60 | 41.35 | 11.363 |
| *Posttest* kontrol | 26 | 40 | 85 | 55.58 | 10.614 |
| *Pretest* eksperimen | 26 | 25 | 75 | 47.50 | 12.430 |
| *Posttest* eksperimen | 26 | 45 | 90 | 76.73 | 10.857 |
| Valid N (listwise) | 26 |  |  |  |  |

1. **Uji normalitas**

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| --- | --- | --- | --- | --- |
| **Uji Normalitas** | | | | |
|  | *Shapiro-Wilk* | | |
| Statistic | df | Sig. |
| Hasil *pretest* kontrol | .968 | 26 | .583 |
| Hasil *pretest* eksperimen | .966 | 26 | .533 |
| Hasil *posttest* kontrol | .965 | 26 | .503 |
| Hasil *posttest* eksperimen | .963 | 26 | .460 |
| \*. This is a lower bound of the true significance. | | | | |
| a. Lilliefors Significance Correction | | | | |

1. **Uji homogenitas**

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| --- | --- | --- | --- | --- | --- |
| **Uji Homogenitas** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| *Pretest* kontrol eksperimen | Based on Mean | .042 | 1 | 50 | .838 |
| Based on Median | .000 | 1 | 50 | 1.000 |
| Based on Median and with adjusted df | .000 | 1 | 46.230 | 1.000 |
| Based on trimmed mean | .033 | 1 | 50 | .857 |
| *Posttest* kontrol eksperimen | Based on Mean | .002 | 1 | 50 | .969 |
| Based on Median | .000 | 1 | 50 | 1.000 |
| Based on Median and with adjusted df | .000 | 1 | 49.012 | 1.000 |
| Based on trimmed mean | .009 | 1 | 50 | .926 |

1. **Uji Hipotesis (Uji-t)**
2. **Uji *pretest* kedua kelas (*Independent Samples Test*)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Independent Samples Test *(pretest*)** | | | | | | | | | | |
|  | | 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 |
| Hasil belajar IPA | Equal variances assumed | ,042 | ,838 | -1,863 | 50 | ,068 | -6,154 | 3,303 | -12,788 | ,480 |
| Equal variances not assumed |  |  | -1,863 | 49,603 | ,068 | -6,154 | 3,303 | -12,789 | ,481 |

1. **Uji *posttest* kedua kelas (*Independent Samples Test*)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Independent Samples Test *(posttest)*** | | | | | | | | | | |
|  | | 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 |
| Hasil belajar IPA | Equal variances assumed | ,002 | ,969 | -7,104 | 50 | ,000 | -21,154 | 2,978 | -27,135 | -15,173 |
| Equal variances not assumed |  |  | -7,104 | 49,974 | ,000 | -21,154 | 2,978 | -27,135 | -15,173 |

1. **Hasil uji-t kelas ekspreimen (Kemampuan berpikir kritis) (*Paired Samples Test*)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Paired Samples Test** | | | | | | | | | |
|  | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | |
| Lower | Upper |
|  | *Pretest - Posttest* | -29,231 | 12,385 | 2,429 | -34,233 | -24,228 | -12,035 | 25 | ,000 |