Lampiran 18

**DATA ANALISIS INFERENSIAL**

**KELOMPOK EKSPERIMEN DAN KELOMPOK KONTROL**

1. **Uji Normalitas**
2. **Uji Normalitas *Pretest***

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| --- | --- | --- | --- |
| *Pretest* | ***Descriptive Statistics*** | | |
| Kelompok Eksperimen | N | 22 |
| *Mean* | 41.1364 |
| *Std. Deviation* | 15.03423 |
| *Minimum* | 25.00 |
| *Maximum* | 70.00 |
| Kelompok Kontrol | N | 18 |
| *Mean* | 41.3889 |
| *Std. Deviation* | 13.69903 |
| *Minimum* | 25.00 |
| *Maximum* | 70.00 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | | |
| **Kelas** | | ***Kolmogorov-Smirnova*** | | | ***Shapiro-Wilk*** | | |
| ***Statistic*** | ***Df*** | ***Sig.*** | ***Statistic*** | ***df*** | ***Sig.*** |
| *Pretest* | Kelompok Eksperimen | .166 | 22 | .115 | .888 | 22 | .017 |
| Kelompok Kontrol | .151 | 18 | .200\* | .927 | 18 | .171 |

1. **Uji Normalitas *Posttest***

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| --- | --- | --- | --- |
| ***Descriptives Statistics*** | | | |
| *Posttest* | Kelompok Eksperimen | *Mean* | 74.3182 |
| *Std. Deviation* | 7.12064 |
| *Minimum* | 60.00 |
| *Maximum* | 85.00 |
| Kelompok Kontrol | *Mean* | 67.5000 |
| *Std. Deviation* | 6.00245 |
| *Minimum* | 55.00 |
| *Maximum* | 80.00 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | | |
| **Kelas** | | ***Kolmogorov-Smirnova*** | | | ***Shapiro-Wilk*** | | |
| ***Statistic*** | ***df*** | ***Sig.*** | ***Statistic*** | ***df*** | ***Sig.*** |
| *Posttest* | Eksperimen | .151 | 22 | .200\* | .941 | 22 | .210 |
| Kontrol | .172 | 18 | .170 | .946 | 18 | .369 |

1. **Uji Homogenitas**
2. **Uji Homogenitas *Pretest***

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| --- | --- | --- | --- |
| ***Test of Homogeneity of Variances*** | | | |
| *Pretest* | | | |
| ***Levene Statistic*** | ***df1*** | ***df2*** | ***Sig.*** |
| .236 | 1 | 38 | .630 |

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| --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | |
| *Pretest* | | | | | |
|  | ***Sum of Squares*** | ***df*** | ***Mean Square*** | ***F*** | ***Sig.*** |
| *Between Groups* | .631 | 1 | .631 | .003 | .956 |
| *Within Groups* | 7936.869 | 38 | 208.865 |  |  |
| Total | 7937.500 | 39 |  |  |  |

1. **Uji Homogenitas *Posttest***

|  |  |  |  |
| --- | --- | --- | --- |
| ***Test of Homogeneity of Variances*** | | | |
| *Posttest* | | | |
| ***Levene Statistic*** | ***df1*** | ***df2*** | ***Sig.*** |
| .827 | 1 | 38 | .369 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | |
| *Posttest* | | | | | |
|  | ***Sum of Squares*** | ***df*** | ***Mean Square*** | ***F*** | ***Sig.*** |
| *Between Groups* | 460.227 | 1 | 460.227 | 10.427 | .300 |
| *Within Groups* | 1677.273 | 38 | 44.139 |  |  |
| Total | 2137.500 | 39 |  |  |  |

1. **Uji Hipotesis (Uji T)**
2. **Uji Hipotesis *Pretest***

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| --- | --- | --- | --- | --- | --- |
| ***Group Statistics*** | | | | | |
|  | Kelompok | N | *Mean* | *Std. Deviation* | *Std. Error Mean* |
| Pretest | Eksperimen | 22 | 41.1364 | 15.03423 | 3.20531 |
| Kontrol | 18 | 41.3889 | 13.69903 | 3.22889 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***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*** |
| *Pretest* | *Equal variances assumed* | .236 | .630 | -.055 | 38 | **.956** | -.25253 | 4.59320 | -9.55097 | 9.04592 |
| *Equal variances not assumed* |  |  | -.056 | 37.519 | .956 | -.25253 | 4.54970 | -9.46679 | 8.96174 |

1. **Uji Hipotesis *Posttest***

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| --- | --- | --- | --- | --- | --- |
| ***Group Statistics*** | | | | | |
|  | Kelompok | N | *Mean* | *Std. Deviation* | *Std. Error Mean* |
| *Posttest* | Eksperimen | 22 | 74.3182 | 7.12064 | 1.51812 |
| Kontrol | 18 | 67.5000 | 6.00245 | 1.41479 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***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*** |
| *Posttest* | *Equal variances assumed* | .827 | .369 | 3.229 | 38 | **.003** | 6.81818 | 2.11151 | 2.54366 | 11.09270 |
| *Equal variances not assumed* |  |  | 3.286 | 37.953 | .002 | 6.81818 | 2.07517 | 2.61705 | 11.01932 |