**Lampiran 12**

**DATA HASIL PENELITIAN *PRETEST* DAN *POSTTEST***

**Frequencies**

| **Statistics** | | | |
| --- | --- | --- | --- |
|  |  | Pretest | Posttest |
| N | Valid | 15 | 15 |
| Missing | 0 | 0 |
| Mean | | 1.1840E2 | 57.6667 |
| Std. Error of Mean | | 2.34987 | 2.14624 |
| Median | | 1.1900E2 | 55.0000 |
| Mode | | 110.00a | 51.00a |
| Std. Deviation | | 9.10102 | 8.31235 |
| Variance | | 82.829 | 69.095 |
| Skewness | | -.087 | 1.232 |
| Std. Error of Skewness | | .580 | .580 |
| Range | | 31.00 | 25.00 |
| Minimum | | 102.00 | 49.00 |
| Maximum | | 133.00 | 74.00 |
| Sum | | 1776.00 | 865.00 |
| Percentiles | 25 | 1.1000E2 | 52.0000 |
| 50 | 1.1900E2 | 55.0000 |
| 75 | 1.2400E2 | 61.0000 |
| a. Multiple modes exist. The smallest value is shown | | | |

**Frequency Table**

| **Pretest** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 102 | 1 | 6.7 | 6.7 | 6.7 |
| 107 | 1 | 6.7 | 6.7 | 13.3 |
| 110 | 2 | 13.3 | 13.3 | 26.7 |
| 111 | 1 | 6.7 | 6.7 | 33.3 |
| 117 | 2 | 13.3 | 13.3 | 46.7 |
| 119 | 1 | 6.7 | 6.7 | 53.3 |
| 121 | 2 | 13.3 | 13.3 | 66.7 |
| 124 | 2 | 13.3 | 13.3 | 80.0 |
| 129 | 1 | 6.7 | 6.7 | 86.7 |
| 131 | 1 | 6.7 | 6.7 | 93.3 |
| 133 | 1 | 6.7 | 6.7 | 100.0 |
| Total | 15 | 100.0 | 100.0 |  |

| **Posttest** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 49 | 1 | 6.7 | 6.7 | 6.7 |
| 51 | 2 | 13.3 | 13.3 | 20.0 |
| 52 | 2 | 13.3 | 13.3 | 33.3 |
| 53 | 1 | 6.7 | 6.7 | 40.0 |
| 54 | 1 | 6.7 | 6.7 | 46.7 |
| 55 | 1 | 6.7 | 6.7 | 53.3 |
| 56 | 2 | 13.3 | 13.3 | 66.7 |
| 57 | 1 | 6.7 | 6.7 | 73.3 |
| 61 | 1 | 6.7 | 6.7 | 80.0 |
| 71 | 1 | 6.7 | 6.7 | 86.7 |
| 73 | 1 | 6.7 | 6.7 | 93.3 |
| 74 | 1 | 6.7 | 6.7 | 100.0 |
| Total | 15 | 100.0 | 100.0 |  |

**Histogram**



