**ANALISIS DATA STATISTIK**

**Nilai Hasil *Posttest* kelas X SMK Negeri 1 Pallangga Gowa** **Kelas Eksperimen (Varibel X) dan Kelas Kontrol (Variabel Y)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **X** | **Y** | **X2** | **Y2** | **X.Y** |
| 1 | 89 | 70 | 7921 | 4900 | 6230 |
| 2 | 88 | 77 | 7744 | 5929 | 6776 |
| 3 | 85 | 70 | 7225 | 4900 | 5950 |
| 4 | 94 | 74 | 8836 | 5476 | 6956 |
| 5 | 88 | 84 | 7744 | 7056 | 7392 |
| 6 | 91 | 76 | 8281 | 5776 | 6916 |
| 7 | 80 | 80 | 6400 | 6400 | 6400 |
| 8 | 88 | 74 | 7744 | 5476 | 6512 |
| 9 | 80 | 75 | 6400 | 5625 | 6000 |
| 10 | 89 | 74 | 7921 | 5476 | 6586 |
| 11 | 83 | 77 | 6889 | 5929 | 6391 |
| 12 | 82 | 76 | 6724 | 5776 | 6232 |
| 13 | 87 | 70 | 7569 | 4900 | 6090 |
| 14 | 88 | 75 | 7744 | 5625 | 6600 |
| 15 | 86 | 74 | 7396 | 5476 | 6364 |
| 16 | 94 | 75 | 8836 | 5625 | 7050 |
| 17 | 83 | 75 | 6889 | 5625 | 6225 |
| 18 | 88 | 80 | 7744 | 6400 | 7040 |
| 19 | 89 | 74 | 7921 | 5476 | 6586 |
| 20 | 88 | 75 | 7744 | 5625 | 6600 |
| 21 | 90 | 72 | 8100 | 5184 | 6480 |
| 22 | 84 | 75 | 7056 | 5625 | 6300 |
| 23 | 83 | 75 | 6889 | 5625 | 6225 |
| 24 | 91 | 77 | 8281 | 5929 | 7007 |
| 25 | 88 | 70 | 7744 | 4900 | 6160 |
| 26 | 88 | 74 | 7744 | 5476 | 6512 |
| 27 | 86 | 70 | 7396 | 4900 | 6020 |
| 28 | 94 | 75 | 8836 | 5625 | 7050 |
| 29 | 87 | 76 | 7569 | 5776 | 6612 |
| 30 | 91 | 79 | 8281 | 6241 | 7189 |
| 31 | 89 | 70 | 7921 | 4900 | 6230 |
| 32 | 91 | 74 | 8281 | 5476 | 6734 |
| 33 | 90 | 70 | 8100 | 4900 | 6300 |
| 34 | 80 | 75 | 6400 | 5625 | 6000 |
| 35 | 90 | 70 | 8100 | 4900 | 6300 |
| **JUMLAH** | **3062** | **2607** | **268370** | **194553** | **228015** |

1. Nilai rata-rata hasil belajar kelompok eksperimen X

$$Mx=\frac{\sum\_{}^{}x}{N}$$

$$Mx=\frac{3062}{35}$$

$$Mx=87,4857$$

1. Nilai rata-rata hasil belajar kelompok kontrol Y

$$My=\frac{\sum\_{}^{}y}{N}$$

$$My=\frac{2607}{35}$$

$$My=74,4857$$

1. Nilai Standar Deviasi Kuadrat kelompok eksperimen X

$$SDx^{2}=\frac{\sum\_{}^{}x^{2}}{N}-Mx^{2}$$

$$SDx^{2}=\frac{268370}{35}-(87,48)^{2}$$

$$SDx^{2}=7667,7142-7652,7504$$

$$SDx^{2}=14,9638$$

1. Nilai Standar Deviasi Kuadrat Kelompok Kontrol Y

$$SDy^{2}=\frac{\sum\_{}^{}y^{2}}{N}-My^{2}$$

$$SDy^{2}=\frac{194553}{35}-(74,48)^{2}$$

$$=5558,6571-5547,2704$$

$$=11.3863$$

1. Nilai Standar Deviasi rata-rata Kuadrat Kelompok Eksperimen X

$$SD^{2}Mx=\frac{SDx^{2}}{N-1}$$

$$SD^{2}Mx=\frac{14,9638}{35-1}$$

$$SD^{2}Mx=\frac{14,9638}{34}$$

$$SD^{2}Mx=0,440111$$

1. Nilai Standar Deviasi rata-rata Kuadrat Kelompok Kontrol Y

$$SD^{2}My=\frac{SDy^{2}}{N-1}$$

$$SD^{2}My=\frac{11.3863}{35-1}$$

$$SD^{2}Mx=\frac{11.3863}{34}$$

$$SD^{2}Mx=0,334891$$

1. Nilai SDbm

$$SD\_{bm}=\sqrt{SD^{2}Mx+SD^{2}My}$$

$$SD\_{bm}=\sqrt{0,440111+0,334891}$$

$$SD\_{bm}=\sqrt{0,775002}$$

$$SD\_{bm}=0,88034$$

Setelah hasil perhitungan di atas selanjutnya gunakan rumus t-test :

$$t-test= \frac{Mx-My}{SD\_{bm}}$$

$$t-test=\frac{87,4857-74,4857}{0,88034}$$

$$t-test=\frac{13}{0,88034}$$

$$d.b=\left(Nx+Ny\right)-2$$

$$d.b=\left(35+35\right)-2$$

$$d.b=68$$

$=14,767$02