**ANALISIS DATA STATISTIK**

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **X** | **Y** | **X2** | **Y2** | **X.Y** |
| 1 | 85 | 70 | 7225 | 4900 | 5950 |
| 2 | 90 | 65 | 8100 | 4225 | 5850 |
| 3 | 90 | 70 | 8100 | 4900 | 6300 |
| 4 | 80 | 60 | 6400 | 3600 | 4800 |
| 5 | 75 | 75 | 5625 | 5625 | 5625 |
| 6 | 95 | 60 | 9025 | 3600 | 5700 |
| 7 | 80 | 70 | 6400 | 4900 | 5600 |
| 8 | 85 | 75 | 7225 | 5625 | 6375 |
| 9 | 95 | 65 | 9025 | 4225 | 6175 |
| 10 | 90 | 60 | 8100 | 3600 | 5400 |
| 11 | 85 | 65 | 7225 | 4225 | 5525 |
| 12 | 75 | 70 | 5625 | 4900 | 5250 |
| 13 | 100 | 50 | 10000 | 2500 | 5000 |
| 14 | 90 | 65 | 8100 | 4225 | 5850 |
| 15 | 90 | 65 | 8100 | 4225 | 5850 |
| 16 | 80 | 75 | 6400 | 5625 | 6000 |
| 17 | 80 | 70 | 6400 | 4900 | 5600 |
| 18 | 90 | 65 | 8100 | 4225 | 5850 |
| 19 | 85 | 70 | 7225 | 4900 | 5950 |
| 20 | 90 | 60 | 8100 | 3600 | 5400 |
| 21 | 80 | 65 | 6400 | 4225 | 5200 |
| 22 | 90 | 70 | 8100 | 4900 | 6300 |
| 23 | 85 | 60 | 7225 | 3600 | 5100 |
| 24 | 80 | 60 | 6400 | 3600 | 4800 |
| 25 | 90 | 75 | 8100 | 5625 | 6750 |
| 26 | 65 | 60 | 4225 | 3600 | 3900 |
| 27 | 90 | 80 | 8100 | 6400 | 7200 |
| 28 | 80 | 70 | 6400 | 4900 | 5600 |
| 29 | 85 | 65 | 7225 | 4225 | 5525 |
| 30 | 90 | 65 | 8100 | 4225 | 5850 |
| 31 | 95 | 65 | 9025 | 4225 | 6175 |
| 32 | 85 | 60 | 7225 | 3600 | 5100 |
| **JUMLAH** | **2745** | **2120** | **237025** | **141650** | **181550** |

1. Nilai rata-rata hasil belajar kelompok eksperimen X

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

$$Mx=\frac{2745}{32}$$

$$Mx=85,78$$

1. Nilai rata-rata hasil belajar kelompok kontrol Y

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

$$My=\frac{2120}{32}$$

$$My=66,25$$

1. Nilai Standar Deviasi Kuadrat kelompok eksperimen X

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

$$SDx^{2}=\frac{237025}{32}-(85,78)^{2}$$

$$SDx^{2}=7407,03-7358,21$$

$$SDx^{2}=48,82$$

1. Nilai Standar Deviasi Kuadrat Kelompok Kontrol Y

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

$$SDy^{2}=\frac{141650}{32}-(66,25)^{2}$$

$$=4426,56- 4389,06$$

$$=37,5$$

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

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

$$SD^{2}Mx=\frac{48,82}{32-1}$$

$$SD^{2}Mx=\frac{48,82}{31}$$

$$SD^{2}Mx=1,575$$

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

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

$$SD^{2}My=\frac{37,5}{32-1}$$

$$SD^{2}Mx=\frac{37,5}{31}$$

$$SD^{2}Mx=1,209$$

1. Nilai SDbm

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

$$SD\_{bm}=\sqrt{1,575+1,209}$$

$$SD\_{bm}=\sqrt{2,784}$$

$$SD\_{bm}=1,668$$

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

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

$$t-test=\frac{85,78-66,25}{1,668}$$

$$t-test=\frac{19,53}{1,668}$$

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

$$d.b=\left(32+32\right)-2$$

$$d.b=62$$

$$=11,708$$