

Lampiran 9

- a. Nilai rata-rata hasil belajar kelompok *posttest* X

$$\begin{aligned} Mx &= \frac{\sum x}{N} \\ &= \frac{1764}{25} \\ &= 70.56 \end{aligned}$$

- b. Nilai rata-rata hasil belajar kelompok *pretest* Y

$$\begin{aligned} My &= \frac{\sum y}{N} \\ &= \frac{1457}{25} \\ &= 58.28 \end{aligned}$$

- c. Nilai Standar Deviasi Kuadrat kelompok *posttest* X

$$\begin{aligned} SDx^2 &= \frac{\sum x^2}{N} - Mx^2 \\ &= \frac{124652}{25} - (70.56)^2 \\ &= 4986.08 - 4978.71 \\ &= 7.37 \end{aligned}$$

- d. Nilai Standar Deviasi Kuadrat Kelompok *pretest* Y

$$\begin{aligned} SDy^2 &= \frac{\sum y^2}{N} - My^2 \\ &= \frac{86165}{25} - (58.28)^2 \\ &= 3446.6 - 3396.55 \\ &= 50.05 \end{aligned}$$

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- e. Nilai Standar Deviasi rata-rata Kuadrat Kelompok *posttest* X

$$\begin{aligned}
 SD^2Mx &= \frac{SDx^2}{N - 1} \\
 &= \frac{7.37}{25 - 1} \\
 &= \frac{7.37}{24} \\
 &= 0.30708
 \end{aligned}$$

- f. Nilai Standar Deviasi rata-rata Kuadrat Kelompok *pretest* Y

$$\begin{aligned}
 SD^2My &= \frac{SDy^2}{N - 1} \\
 &= \frac{50.05}{25 - 1} \\
 &= \frac{50.05}{24} \\
 &= 2.08541
 \end{aligned}$$

- g. Nilai SD_{bm}

$$\begin{aligned}
 SD_{bm} &= \sqrt{SD^2Mx + SD^2My} \\
 &= \sqrt{0.30708 + 2.08541} \\
 &= \sqrt{2.39249} \\
 &= 1.54676
 \end{aligned}$$

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

$$\begin{aligned}t - test &= \frac{Mx - My}{SD_{bm}} \\ &= \frac{70.56 - 58.28}{1.54676} \\ &= \frac{12.28}{1.54676} \\ &= 7.93917\end{aligned}$$

$$\begin{aligned}d. b &= (Nx + Ny) - 2 \\ &= (25 + 25) - 2 \\ &= 48\end{aligned}$$