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① Diketahui :

$$\begin{array}{lll} \bar{x}_1 = 115.1 & \bar{x}_2 = 24.3 & \mu_1 = \text{CCB} \\ s_1 = 79.4 & s_2 = 10.5 & \mu_2 = \text{LLM} \\ n_1 = 51 & n_2 = 19 \end{array}$$

Step 1 : find H_0 and H_a

$$H_0 : \mu_1 = \mu_2$$

$$H_a : \mu_1 > \mu_2$$

→ Right tailed

atau rejected and Glider

Step 2 : $\alpha = 0.01$

Step 3 : Calculate test statistic

$$t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{(s_1^2/n_1) + (s_2^2/n_2)}} = \frac{115.1 - 24.3}{\sqrt{(79.4^2/51) + (10.5^2/19)}}$$

$$t = 7.981 \rightarrow t \text{ statistic}$$

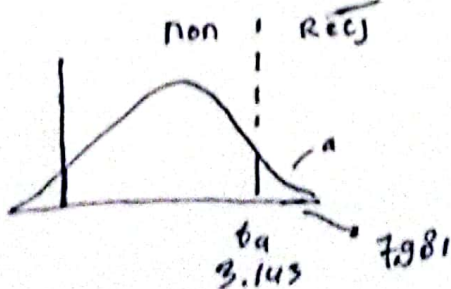
Step 4 : Critical

$$\Delta = \frac{\left[\frac{(s_1^2/n_1) + (s_2^2/n_2)}{n_1 - 1} + \frac{(s_2^2/n_2)}{n_2 - 1} \right]^2}{\frac{(s_1^2/n_1)}{n_1 - 1} + \frac{(s_2^2/n_2)}{n_2 - 1}} = \frac{[(79.4^2/51) + (10.5^2/19)]^2}{(79.4^2/51) + (10.5^2/19)}$$

$$\Delta = 5997.1 \rightarrow t_{\alpha} \rightarrow \Delta$$

$$df = 6$$

$$t_{\alpha} = t_{0.01} = 3.143$$



7.981 → kita dapat kesimpulan
 H_0 Ditolak (Rejected).

Step 1 : Given H_0 and $H_a \rightarrow$ Friedman \rightarrow Cochran

$$H_0 = H_1 = H_2$$

$$H_a = H_1 < H_2 \quad \triangleright \text{Let's called}$$

Karena jumlah H_i hanya dua H_1 dan H_2

Step 2 : Given $\alpha = 0.05$

Step 3 : Compute rank of each.

Fries	Rank	Cochran	Rank
188	7	180	3.5
190	8	178	2
235	10	182	5
225	9	185	6
		169	1
		180	3.5

$$\text{tdo } \frac{3+4}{2} = 3.5$$

$$U = 7 + 8 + 10 + 9 + \dots = 50$$

Step 4 : Critical Value.

$$U_{1-0.05/2} \text{ and } U_{0.05/2}$$

$$U_{1-0.025} \text{ and } U_{0.025}$$

$$n_1 = 4 \text{ (fries)}$$

$$n_2 = 6 \text{ (Cochran)}$$

$$U_{1-\alpha} = 1 - \alpha (n_1 + n_2 + 1) - U_{\alpha}$$

$$U_{1-0.025} = 1 - 0.025 (4 + 6 + 1) - U_{0.025}$$

$$= 16 + 24 + 4 + \dots - U_{\alpha}$$

$$=$$

③. Step 4 : Critical Value. α & n

- $n_1 = 4$ (piece)
- $n_2 = 6$ (Coat roll)

- $\alpha_{0.05} \Rightarrow$ pada bagian α saya akan
- mengubah α table yang diberikan.