

Harvest Walukau

No

Date

9.36 Diketahui: $\bar{x}_A = 720$ $\bar{x}_B = 860$

$s_A = 30$ $s_B = 42$

$CI = 90\% \rightarrow \frac{\alpha}{2} = \frac{0.1}{2} = 0.05$

$n = 62$

$$V = \left(\frac{30^2}{62} + \frac{42^2}{62} \right) = 110.38 \approx 110$$

$$\left[\frac{(30^2)^2}{62} \right] + \left[\frac{(42^2)^2}{62} \right]$$

$t_{0.05, 110} = 1.66$

$$(860 - 720) - 1.66 \sqrt{\frac{42^2}{62} + \frac{30^2}{62}} < \mu_B - \mu_A$$

$$< (860 - 720) + 1.66 \sqrt{\frac{42^2}{62} + \frac{30^2}{62}}$$

$= 129.11 < \mu_B - \mu_A < 150.88$

9.50 Diketahui: $n_1 = 12$ $\bar{x}_1 = 24$ $s_1 = 4.2$ $CI = 99\%$

$n_2 = 16$ $\bar{x}_2 = 18$ $s_2 = 3.6$ $\frac{\alpha}{2} = 0.005$

$$s_p^2 = \frac{(12-1)4.2^2 + (16-1)3.6^2}{12+16-2} = 14.94 \Leftrightarrow s_p = 3.9$$

$V = 26 \rightarrow t_{0.005, 26} = 2.779$

$$(24 - 18) - 2.779(3.9) \sqrt{\frac{1}{12} + \frac{1}{16}} < \mu_1 - \mu_2 < (24 - 18) + 2.779(3.9) \sqrt{\frac{1}{12} + \frac{1}{16}}$$

$1.861 < \mu_1 - \mu_2 < 10.138$