

Kamis, 23 Desember 2021

UAS MK Statistika Dasar

(b)

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| Jenis Filter | Varietas Ikan N/A                                                               |                                                                                 |                                                                                 | Total |
|--------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------|
|              | Best                                                                            | Gesit                                                                           | Mirah                                                                           |       |
| Filter A     | 460<br>$\begin{cases} 150 = 22.500 \\ 190 = 36.100 \\ 120 = 14.400 \end{cases}$ | 270<br>$\begin{cases} 90 = 8.100 \\ 120 = 14.400 \\ 60 = 3.600 \end{cases}$     | 330<br>$\begin{cases} 140 = 19.600 \\ 80 = 6.400 \\ 110 = 12.100 \end{cases}$   | 1060  |
| Filter B     | 620<br>$\begin{cases} 200 = 40.000 \\ 240 = 57.600 \\ 180 = 32.400 \end{cases}$ | 370<br>$\begin{cases} 120 = 14.400 \\ 150 = 22.500 \\ 100 = 10.000 \end{cases}$ | 510<br>$\begin{cases} 240 = 44.100 \\ 160 = 25.600 \\ 140 = 19.600 \end{cases}$ | 1500  |
| Filter C     | 530<br>$\begin{cases} 220 = 48.400 \\ 170 = 28.900 \\ 140 = 19.600 \end{cases}$ | 230<br>$\begin{cases} 100 = 10.000 \\ 50 = 2.500 \\ 80 = 6.400 \end{cases}$     | 460<br>$\begin{cases} 190 = 36.100 \\ 150 = 22.500 \\ 120 = 14.400 \end{cases}$ | 1220  |
| Total        | 1610                                                                            | 870                                                                             | 1300                                                                            | 3780  |

a. Interval

b. Non Parametrik

c. Hipotesis :

a. Tidak ada perbedaan laju pertumbuhan antara 3 Varietas Ikan tersebut

b. Jenis Filter air yang berbeda tidak berpengaruh pada laju pertumbuhan ikan

c. Jenis Filter air dan Varietas Ikan tidak berinteraksi

$$JK_T = 150^2 + 190^2 + 120^2 + \dots + 120^2 - \frac{3780^2}{27} = 592.200 - 529.200 = 63.000$$

$$JK_B = \frac{1060^2 + 1500^2 + 1220^2}{9} - \frac{3780^2}{27} = 540.222,22 - 529.200 = 11.022,22$$

$$JK_K = \frac{1610^2 + 870^2 + 1300^2}{9} - \frac{3780^2}{27} = 559.888,89 - 529.200 = 30.688,89$$

$$JK(BK) = \frac{460^2 + 620^2 + 530^2 + 460^2}{3} - 540.222,22 - 559.888,89 + 529.200 = 2.488,89$$

$$JK_G = 63.000 - 11.022,22 - 30.688,89 - 2.488,89 = 18.800$$