

Nama : ADINDA LINTANG KHOSYI

Npm : 2014201020

①

(i)	Mtk (1)	Statistika (2)	Limno (3)	mka (4)	Total
Andi (1)	68	57	73	61	259
Rina (2)	83	94	91	86	354
Budi (3)	72	81	63	59	275
Siska (4)	55	73	77	66	271
Dina (5)	92	68	75	87	322
Total	370	373	379	359	1481
Nilai tengah					

$$JKT = 68^2 + 83^2 + 72^2 + 55^2 + 92^2 - \frac{1481^2}{20} = 2772,92$$

$$JKB = \frac{259^2}{4} + \frac{354^2}{4} + \frac{275^2}{4} + \frac{271^2}{4} + \frac{322^2}{4} - \frac{1481^2}{20} = 1618,7$$

$$JKK = \frac{370^2}{5} + \frac{373^2}{5} + \frac{379^2}{5} + \frac{359^2}{5} - \frac{1481^2}{20} = 42,15$$

$$JKE = 2772,92 - 1618,7 - 42,15 = 1112,07$$

Sumber keragaman	Jumlah kuadrat	Derajat bebas	kuadrat tengah	F.hitung	F.tabel
Nilai tengah Baris	1618,7	4	809	4,36672	
Nilai Tengah kolom	42,15	3	21,075	6,151609	
Galat	1112,07	12	556,10		
Total	2772	19			

②	Jenis Pakan	Varietas Ikan nila			Total
		A	B	C	
	Pakan A	150	200	220	
		190	240	170	1610
		120	180	140	
		170	240	260	
	Pakan B	100	180	190	1700
		130	220	210	
		90	120	100	
	Pakan C	120	150	50	870
		60	100	80	
		140	210	190	
	Pakan D	80	160	150	1.300
		110	140	120	
	Total	1.460	2.140	1880	

$$JKT = 150^2 + 190^2 + \dots + 120^2 - 5480^2 = 934200 - 834177,7$$

$$JKB = 1610^2 + 1700^2 + 870^2 + 1300^2 - 5480^2 = 46822,2$$

$$JKK = 1460^2 + 2140^2 + 1880^2 - 480^2 = 19622,2$$

$$JK(BK) = 460^2 + 400^2 + \dots + 460^2 - 88100 - 85300 + 834177,7$$

$$JKE = 10022,3 - 46822,2 - 19622,2 - (80074,3667) = 84001,6667$$

	D_1	D_2	D_3	Total
D_1	460	620	536	1610
D_2	400	640	660	1700
D_3	270	370	230	870
D_4	330	570	460	1.300
Total	1460	2140	1880	5480