

Nama: AGIL AKMAL A.

NPM: 2014201014

Prodi: Sumbardaya Akwari

1.	(i)	(j)				Total	Nilai Tengah
		Mtk (1)	Statistik (2)	limno (2)	MKA (4)		
	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						

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

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

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

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

Sumber keragaman	Jumlah kuadrat	Derajat	kuadrat Tengah	F. Hitung
Nilai Tengah baris	1618,7	4	404,675	4,36672
Nilai Tengah kolom	42,15	3	14,05	0,151609
Galat	1112,07	12	92,6725	
Total	2272,92	19		

2	Jenis Pakan	Nilai-nilai ikan nila			Total
		A	B	C	
	Pakan A	150	200	220	1610
		190	240	170	
		120	180	140	
	Pakan B	170	240	260	1700
		100	180	190	
		130	220	210	
	Pakan C	90	120	100	870
		120	150	50	
		60	100	80	
	Pakan D	140	210	190	1.300
		80	160	150	
		110	140	170	
	Total	1.460	2.140	1880	5.480

$$* JKT = 150^2 + 190^2 + \dots + 120^2 + \frac{480^2}{36} = 934200 - 834177,7 = 100022,3$$

$$* JKB = \frac{1610^2 + 1700^2 + 870^2 + 1300^2}{9} - \frac{5480^2}{36} = 46822,2$$

$$* JKC = \frac{1.460^2 + 2.140^2 + 1880^2}{12} - \frac{480^2}{36} = 19622,2$$

$$* JK(BK) = \frac{460^2 + 670^2 + \dots + 460^2}{3} - 861000 - 853800 + 834177,7 = 808744,3667$$

$$* JKE = 10022,3 - 46822,2 - 19622,2 - 80874,3667 = -86081,6667$$

	U_1	U_2	U_3	Total
D_1	460	670	530	1610
D_2	400	640	660	1700
D_3	770	370	230	870
D_4	330	510	460	1.300
Total	1.460	2.140	1880	5480