1. (a)	Ho = The number of company distribution of opinions between voters from three employee positions of a company is the same.					
	11 The distribution of	+ opinions between	votes from	three employee positions o		
	a company is not t	he same.				
	a company to the					
	12-2 7 1 - 2 5 27	as total co	() - V	1111/2 14		
	Responses	Support	Against	Total		
	Number of Employee	220	180	400		
	Ei = OP	400× 60 = 240	400 X 40 = 160.	400		
	-11			4		
	1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MI 143) (24)	141 . (47	6) 2 3 19		
	At 0 =0.05 , V=2-1=1	critical value = x	0.05:1 = 3.841	1		
	/// 1/10/00 1/2 / / /	Critical region = X	7 3.841			
-		81 SE	3 ·			
-	7,5748,1467,17	41 ECK' C 2 14	1 × 5 ×			
	$\chi^2 : \sum_{i=1}^{2} (0_i - E_i - 0.5)^2$	(1220-2401-0	(1180-)	(60) -0.5)		
	X = Z I Ei	240	- 0	160		
		: 1.5844 + 2.37				
		1 3.9609				
	v. h. e. H.	u - [aria: 4]	We are	k Y nov		
	2 0/09	+ of balaba un	is villed \$	T WE HAVE		
	:. since x': 3:961 73.841	reject the at d	=0.05 and we	can conclude that the		
	distribution of opinions	Letuleen Votes	from three em	plane positions of a		
	arstribution of optimis	pojuton voice	HACE OF	0 1		
	company is not the sam	, ye				
				110 L		
	2,373223			1.0		
-	Liv math	tr Truck	18	10 V		
	2 12 12 12 12 12 12 12 12 12 12 12 12 12			1.0		
-	2 19 1929 1 1	tr Truck		1.0		
	2 17 1727 7 17 17 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	h nnut at a l at a l		1.0		
	2 19 1929 1 1	tr Truck		1.0		
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		h nnut at a l at a l				
		Manager Ma Manager Ma Ma Manager Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma		1.0		
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(b)	Ho: The respon	uses are not related	to the group of	the employee.	vij N					
(3°)	H.= The respond	onses are related to	the group of	the employee.	N Y.					
	Af d=0.05	V= (3-1)(2-1)=2	, critical value = rejection value =	x > 5.991	6169					
), l	CAL EXCOR DEC	Axiv	solging 8	THE STATE OF THE S					
	X ¹ . \(\frac{2}{2}\) \(\frac{1}{12}\) \(\frac{1}{12}\)	(134-143) Eij 143 (22-22) 22), (126-117), 117	(64-84) , J	(36-45) ² 45					
		22	18							
		= 0.5667 T (0.6425 + 1.4 12 1	+1.8+0+0						
	4.5314 134E-0CC13 (20-13-11) 5. v									
	4.3	. 75		3 / LE C + 4 + 2 S / L						
	- 3	24 te 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 4492	-						
		J.†8 € .	EDJA E.							
	∴ since X =	4.5314 L5.991 it is	failed to reject	Ho at 0=0.05						
	∴ since X =	J.†8 € .	failed to reject	Ho at 01=0.05.	% .					
	∴ Since X = Hence, the	4.5314 L5.991, it is responses are not re	failed to reject elated to the g	Ho at 01=0.05.	90.					
-44	∴ Since X = Hence, the	4.5314 L5.991 it is	failed to reject elated to the g	Ho at 01=0-05 roup of employs	e.					
244	∴ Since X = Hence, the	4.5314 L5.991, it is responses are not re	failed to reject elated to the g	roup of employe						
244	Since X = Hence, the	4.5314 L5.991, it is responses are not re	failed to reject elated to the g	roup of employs	results a					
	Since X = Hence, the	4.5314 L5.991, it is responses are not re	failed to reject elated to the g Respon	roup of employs ses Against	Total					
	Since X = Hence, the Oij Black Collar	4.5314 L5.991, it is responses are not re	failed to reject elated to the g Respon support 134 (143)	coup of employerses Against 126(117)	Total 260					
	Since X = Hence, the	4.5314 L5.991, it is responses are not responses are not responses white-collar	failed to reject elated to the g Respon Support 134 (143) 64 (55)	coup of employerses Against 126(117) 36(45)	Total 260					
	Since X = Hence, the Oij Black Collar	4.5314 L5.991, it is responses are not re Blue-collar white-collar managers	Responsupport 134 (143) 64 (55) 22 (22)	roup of employs Against 126(117) 36(45) 18(18)	Total 260 100 40					
	Since X = Hence, the Oij Black Collar	4.5314 L5.991, it is responses are not responses are not responses white-collar	failed to reject elated to the g Respon Support 134 (143) 64 (55)	coup of employerses Against 126(117) 36(45)	Total 260					
	Since X = Hence, the Oij Black Collar	4.5314 L5.991, it is responses are not responses are not rewrited white-collar managers	failed to reject elated to the g Respon support 134 (143) 64 (55) 22 (22) 220	126(117) 36(45) 18(18) 180	Total 260 100 40					
94	Since X = Hence, the Oij Bhore Collar Employee En = 260(220) 400	4.5314 L5.991, it is responses are not a Blue-collar white-collar managers 70tal	failed to reject elated to the g Responsupport 134 (143) 64 (55) 22 (22) 210	126(117) 36(45) 18(18) 180	Total 260 100 40					
	Since X = Hence, the Oij Blow collar Employee En = 260(220) 400 2 143	4.5314 L5.991, it is responses are not re Blue-collar white-collar managers 70tal 400 = 55	failed to reject elated to the g Respon Support 134 (143) 64 (55) 22 (22) 220 0) E31 =	126(117) 36(45) 18(18) 180 40(22) 400 = 22	Total 260 100 40					
	Since X = Hence, the Oij Blow Collar Employee En = 260(220) 400 2 143 E12 = 260(180)	Blue-collar white-collar managers Fai = 108C20 400 = 55 Fai = 100C18	failed to reject elated to the g Respon Support 134 (143) 64 (55) 22 (22) 220 0) E31 =	126(117) 36(45) 18(18) 180 40(22) 400 = 22 40(180)	Total 260 100 40					
	Since X = Hence, the Oij Blow collar Employee En = 260(220) 400 2 143	4.5314 L5.991, it is responses are not re Blue-collar white-collar managers 70tal 400 = 55	failed to reject elated to the g Respon Support 134 (143) 64 (55) 22 (22) 220 0) E31 =	126(117) 36(45) 18(18) 180 40(22) 400 = 22	Total 260 100 40					

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B 1-(c)		distribution of res	ponses between by	De collar and	Mon- b the gi	oup of
	blue	distribution of resp	ollar /is the same			U. ()
	Hi = The	distribution of resp	panses between the	group of blu	e-collar of the	pon apo
	non.	-blue collar is not	the same.			
		23: 13:4	Table Value Pac	Pagad +		
	11	41.13		Ponses Against	Total mai	
	L L	Blue-collar	134 (143)		260	
	Employee	Non-Blue-collar	86 (77)		140	
	Linkingeo	1001) - DIME - COTTUT	220	180	400	
			220	100	100	
	At d=0	·05, V = (2-1)(2-1) =	1 critical value	= X 0.05 .) :	3.841	
	7.4 4 0	I PP 1 T X Philips	Tejection reaid	n = x2 7 3.84		
			Jenne 19			
	H& Ho = The	e distribution of a	esphoses is ass	differs amono	the group o-	f blue-
F.	col	lar and non-blue e	ollar 1	1 K 450	-enj x	
	Hi= The	lar and non-blue condistribution of res	ponses is not dif	Hers among	the group of	blue-
	collar	r and non-blue colle	2691 0 + # 1 + TUDE	0 + 88 19 54	at it is	
					181 8	
	γ ² . Σ	(10i-Ei1-0.5)2 (1134	-1431-0-5) (1#71)	26-117]-0.5)	(186-77)-0.5)	
b. 6. 83	યા કોવું ચૂિત		4.5		COMPANIES.	
		<u>f (15</u>	14-631-0.5) ²	7 75M e 2	relja k	
			63	-0- (18/3-0		
		: 01/50351	3.2079	383-4m13400m		
		; 3 <u>/</u> 2070	3.2019			
			" \ Fail (.	1		
	Since	$x^2 = 3.2078 < 2.841$ $x^2 = 3.2078$ 3.841 where that	His Called L	DE TEJECTEA	ence	
	since	X= 3.20 14K 3.841	11 - Valsilutina d	reject Ho	1:10-c - 000	00 H0
	and w	le con clube that	the distribution of	espone 12	alters ariv	ig the
	group	of blue-collar and	a you - pine -collar,			
			E 1/(A(220)			
	En = 26	50(220)	E21 : 140(220)			
		400	400			
	2	143	: 11			
	F	(4.4.00)	= 1(1A(10A)			
	£12 - 26		E22 : 140(180)		1	
		400	400			
	<u>2</u> _]	17	÷ £ 63			

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2.0) i.	litter size (Rx)	A Y	Brain Weight (Rg)	d=Tx-ry	nd d'
2.07	3 (1)	19. 4 2	0.440 (10)	1149 4	8)
al to	4 (2-5)	14 v 1 §	0.417 (4)	-1.5	2.25
24.2	4 (2-5)	196 48	0.429 - (8)	14-5.5	30.25
1-8-1	5 (4)	2. 此。[a秦	0.430 (9)	-5	25
1 -3+)	6 (5)	2011-0H	0.422 (6)	FJ 12 1	g I
	7 (6)	25 14 14	0.424 (7)	1821	T (
+ (8 EA)(7	-5)	0.414 (3)	4.5	20.25
3	8 (8) (7	1-5)	0.409 (1)	6.5	42.35
hite v	9 (9)	Party Light	0.410 (2)	17	49
Tak d	11 (10)	and the same	0.401 (5)	5 × 30	25
Refly are us	Σrx : 65	31 46 38	ERy: 4.216	(17-8-35	Ed"= 277

 $\frac{\Gamma_{S=1} - 6\Sigma d^{2}}{n(n^{2}-1)}$ $= \frac{6(277)}{10(10^{2}-1)}$ = -0.6788

There is a moderater degree strang of disagrement between the rankings of litter size and brain weight, Higher indicate that Brain weight increase, litter size icrease too.

: There is a high degree of disagrement between the rankings of litter size and brain weight. As the litter size increase, the brain weight decreases.

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7111100	4					
2 (0) 274	Radu Workt	(84)	Brain weight (Ry)	14 X2	(y y =)	XY (C) C
2.6) ii.	Body Weight			92.4290	0.1936	4.2302
1.50	9.614	(10)	0.440 (10)		0.1739	3.8176
30.0	9.155	(7)	0.417 (4)	83.8140		4,1240
7. A	9.613	(9)	0.429 (8)	92.4098	0.1840	
3.6			0.430 (9)	85,1929	0.1849	3.9689
	9.230	(8)	103	70.9132	0.1781	3.5537
1	9 18.421 1	X6)	0.422 (6)			3.3360
4	7.868	(5)	0.474 (7)	61.9054	0.1798	2.9146
2, 45	7.040	(3)	0.414 (3)	49.5616	0.1714	
28.64			0.409 (1)	52.6060	0.1673	2.9665
6,7 5.44	ד.ב53	(4)	V 13	48 · 0249	0-1681	2.8413
÷ Δ	6:930	(2)	0.410 (2)			2.8030
0.5	6 - 8 658	(1)	0.421 (5)	44.3290	0,1772	
-	Σrx = 81.7		Zry = 4,21673	ZX=681.1858	8 zy, 1.1783	IXY=34.5558
`	21X - 01.	, • -			J	

 $\frac{n \sum xy - (\sum x)(\sum y)}{[n \sum x^2 - (\sum x)^2][n \sum y^2 - (\sum y)^2]} \\
= \frac{10(34.5558) - (81.782)(4.216)}{[10(681.1858) - (81.782)^2][10(1.7783) - (4.216)^2]}$

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: 0.7535 0.7535

rented there is the second vertices ... There is a strong positive correlation between body weight and brain weight. As the body weight increase, the brain weight will increase.

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		Differ shee	V S Make J .	. TV			
3-65 ir.	Independent variable =	Land Land 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N. A. C. W.				
2(P)		Brain Weight (grams) Brain Weight (Ry) X ²	×y			
	Litter size (Rx)	0.440 (10)	9	1.32			
	3 (1) 4 (2.5)	0.417 (4)	16	1.668			
		0.429 (8)	16	1-716			
	7 1,2 1	0.430 (9)	25	2-15			
	5 (4) 6 (5)	0.422 (6)	36	2.532			
		0.424 (7)	49	2.968			
	7 (6)	0.414 (3)	64	3.312			
	8 (7-5) 8 (7-5)	0.409 (1)	64	3-272			
		0.410 (2)	81	3.69			
	1	0.421 (5)	121	4.63)			
		was all and the Sy = 4.216	1	EXy-27.259			
	ΣX =65			1189			
	21 11 20 11	in who ment of the term of					
	N=10 y3 = 4400NB 1.778	3 m to dispus m t	100 B 2 2 10	n 10			
	b- n(xxy)- xx(xy)	α = <u>ΣΥ</u>	ΣX	Code s 14 V			
	n Ex2 - (\(\Six\)2		N. A. L. C.				
	- 10(27.259) - 65(4.21	4.216	- (-0.0025) (65)	n/s			
1.1	10(481) - (65)	nt promote mr 10		4			
	ma 1 11 11 145 31 124	10.4216	+ 0.0163	mult			
	585	on 20-4379	Tribed at whi	300			
	= -0.0025	VI = (V					
		Y' = a+bx	AAREAL	2 mag (43 ¢			
	0.43 11 0.0025						
		6.4 (C. SW) 中国图		- W-7			
	(800)	167 X SE T NX	11 10 2005	arama)			
	: The average change in	the predicted brain weignits of litter size.	INT 18 -0.0025 (rains			
	due to change of 1	nits of litter size.	THE TRANSPORT				
	The ast predicted by	oin weight is 0.4379 (g	rams) when the	htter size			
	is a unit						
79.	arrive 14 at w	real rough.	스 프랑스 이번				
nijk Ran I	de on the end to	H TOWN OF	7.	1 15			
10 to 30	nea ago tratility water	1 19 14 75	(6.56.5)	1 - 1			
10 38	te da fosiciona 186 a	y. 1 143 B	1974				
		* + 6.800	1106) ·			
	and the second s						

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2. (c) j.	Y' = 0.4379 - 0.0025 ×	्रा असी.	Media	to homekala	
٠ (و) ١٠	0.4379 - 0.0025(2)	Associated and transfer	a disable	Malina de la Companya	UPC
	0.4379 (grams)	alab a call. Ba	(v2)	ca estal	
	: 0.4321 tglans)	43 1	(4)	47	
	: since the value of x(2) fa		a al datas	mt.	
3	Since the Value of x (2) to	Les austre la	e of ania he	2019	
J.	the estimate is obtained the estimate is considered	by extrapolation to	echnique, no	المالية	
	the estimate is considered	as less accurate	or un and	GOTTENHADIE .	
	22 (1) 25			unreliable.	
3.9		1.0			
2.6)ii.	Y' = 0.4379 - 0.0025 X	1. 3	13-17	- X	
ζF	20.4379 - 0.0025(10)	1.0	(E-1)	- 1	
F	6 20.4129 C) JIA	.0	(P)	P	
0 18	431 (2) 154	13	409	Lt.	,
S PATE	:. since the value of x(10) falls	within the range of	data set .	the -	
1.001.5	estimate is obtained by inter	colation ten technique	and hence	the	
	estimate is considered as co	accurate and reliable	1.1 6623.74	M 01 = 01	
	Estimate is constructed as a	ACCOUNT WIND LOUGH			
		•			
	U7 U7	•	(William)	v* 4	
- Kan	XX	· · · · · · · · · · · · · · · · · · ·	[10] YZ	v2. d	,
Sylf)	UV 1000 0/ 00		(19173 a.	12.4	,
System	4 Y = 0.4379 -0.0025	Like 4	(1/2 / VZ)	12 A	
ALGH	4 Y = 0.4379 -0.0025	Like 4	Meight is	-0.0025 (gram	:)
₹₩	:. The average change in the	estimated brain until the sixter	Neight is e- The es	-0.0025 (grams	;)
ALMA.	:. The average change in the	estimated brain until the sixter	Neight is e- The es is o unit/	-0.0025 (grams	;)
A/M)	4 Y = 0.4379 -0.0025	estimated brain until the sixter	Neight is e- The es is o unit	-0.0025 (grams	2)
De la Contraction de la Contra	:. The average change in the	estimated brain until the sixter	Neight is e- The es is o unit	-0.0025 (grams	;)
	:. The average change in the due to change of lunits useight is 0.4379 (grams whe	estimated brain used the litter size	Meight is e- The es is o unit	-0.0025 (grams	;)
2.(d)	:. The average change in the due to change of lunits useight is 0.4379 (grame when the litter size	estimated brain used the litter size in the litter	205 -	-0.0025 (grams stippated brain	;)
	:. The average change in the due to change of lunits useight is 0.4379 (grame when the litter size	estimated brain used the litter size in the litter	205 -	-0.0025 (grams	;)
	:. The average change in the due to change of lunits weight is 0,4379 (gram) whe have \$\frac{1}{2} \text{Weight is 0,4379 (gram) whe Brain weight is 0,4379 (gram) when \$\frac{1}{2} \text{Weight is 0,4379 (gram) when \$\frac{1}{2} Weight is 0,4379 (gram) when \$\frac	estimated brain upof httpe litter size in the litte	1.7783	35 (~ 3	;)
	:. The average change in the due to change of lunits useight is 0.4379 (grame when the Brain weight 150, X=65, Y=4.216, Xy=27.	estimated brain upof httpe litter size in the litte	1.7783		;)
	2 = 0.4379 - 0.0025 The average change in the due to change of lunits weight is 0.4379 (grams when the difference of lunits) Note: \$\frac{1}{2} \text{ Litter size} \text{ Brain weight weight of lunits} \text{ Brain weight of lunits} \text{ Litter size} \text{ Litter size} \text{ Brain weight of lunits} \text{ Litter size}	estimated brain under the litter size in the litter	1.7783		;)
	1. The average change in the due to change of lunits weight is 0.4379 (gram) whe have \$\frac{1}{2} \text{ \text{Litter Size}}{2}\$ \[\text{Real of the litter Size}{2} \text{ \text{Brain weig}}{2}\$ \[\text{N=10}, X=65, Y=4.216, XY=27.} \] \[\text{T=10(27.259) - (65)(4.216)}{2} \text{Tio(481) - (65)^2][10(1.7183) - (4.216)^2]}{2} \]	estimated brain upof httpe litter size in the litte	1.7783	nt aut	;)
	2 = 0.4379 - 0.0025 The average change in the due to change of lunits weight is 0.4379 (grams when the difference of lunits) Note: \$\frac{1}{2} \text{ Litter size} \text{ Brain weight weight of lunits} \text{ Brain weight of lunits} \text{ Litter size} \text{ Litter size} \text{ Brain weight of lunits} \text{ Litter size}	estimated brain upof httpe litter size in the litte	1.7783	nt aut	;)
	:. The average change in the due to change of lunits weight is 0.4379 (gram) whe N-40, 5x=65, 4=4.216, xy=27. T=10(27.259) - (65)(4.216) [10(481) - (65)][10(1.7783) - (4.216)]	estimated brain upof hittle litter size in the litt	1.7783		
	:. The average change in the due to change of lunits weight is 0,4379 (gram) when the size Brain weight 15, y=4.216, xy=27. T=10(27.259) - (65)(4.216) [10(481) - (65)*][10(1.7183) - (4.216)*]	estimated brain used that the litter size in the li	1.7783	variation of	D
	:. The average change in the due to change of lunits weight is 0.4379 (gram) whe N-40, 5x=65, 4=4.216, xy=27. T=10(27.259) - (65)(4.216) [10(481) - (65)][10(1.7783) - (4.216)]	estimated brain whe litter size in the litter size	1.7783 + the total s explained	variation of i	n ba for
	The average change in the due to change of lunits weight is 0,4379 (gram) whe have \$\text{N=40}\$. X=65, \$\text{V=4.216}\$. Xy=27. \[\begin{align*} Ino(481) - (65) '] [10(1.7783) - (4.216) '] \\ \text{Ino(481) - (65) '] \]	estimated brain is of hittle litter size in the lit	1.7783 t the total s explained tion in lit	variation of i	n by for
	2 = 0.4379 - 0.0025 The average change in the due to change of lunits useight is 0.4379 (grams) when the size Brain weight is 0.4379 (grams) when the size Brain weight is 0.4379 (65) (4.216) [10(27.259) - (65)(4.216) [10(481) - (65)] [10(1.7783) - (4.216)] 0.6563	estimated brain is of hittle litter size in the lit	1.7783 t the total s explained tion in lit	variation of i	n by for
	2 = 0.4379 - 0.0025 The average change in the due to change of lunits weight is 0.4379 (grams) when the size Brain weight is 0.4379 (grams) when the size Brain weight is 0.4379 (65)(4.216) T= 10(27.259) - (65)(4.216) T= 10(27.259) - (65)(4.216) T= 0.6563 T= 0.4307	estimated brain to of hitse litter size in the litt	1.7783 t the total s explained tion in lit	variation of i	n by for
	2 = 0.4379 - 0.0025 The average change in the due to change of lunits useight is 0.4379 (grams) when the size Brain weight is 0.4379 (grams) when the size Brain weight is 0.4379 (65) (4.216) [10(27.259) - (65)(4.216) [10(481) - (65)] [10(1.7783) - (4.216)] 0.6563	estimated brain is of hittle litter size in the lit	1.7783 t the total s explained tion in lit	variation of i	n by for

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