						Page 68	_
							=
7. Followin	g table	lepleser	rts sales	fracus	-C 40	10 7	_
new m	enu item	ns in 18	8 lestau	10 mte	0F 10	ne s	_
whethe	e average	e sales	volume	010 011	91 0.50	lus test	_
	0		volunte	me mi	equai		_
Item 1	22	42	44 52	45	37		_
Item 2	52	33	8 47				_
Item 3	16	24		34	39		_
							_
> df1 =	lead.cs	v ("c: 1	users 11 ac	lmin \\	Desktop	( CRD. CSV)	
> 1= C	(t (as.mo	utlix (df1	(()))	•	-		_
> f = c	("Item1	", "Item	a", "Item	3 <sup>4</sup> )			
> k=3		•					
> n=6							
> tm =	91(k,1	n*k far	tol(f))				
> blk =	g1 (n,	k.k*n)					
	<b>V V</b>			10.00	10 : 11-0	.4 11- 2 11	
			1/	evels:		1 Hema Ite	m)S
			L	veis.	1 ×	3 4 5 6	
> lbdfit	= aov (	l-tm+k	olk)				
	racy (sto					11	
	Df	Sum sq	Mean s	q F-	value	P <sub>1</sub> (>F)	
tm	2	538.8	269.39		959	0.0319	
blk	5	559.9	111-96	۵.	061	0.1547	
Residuals	10	543·2	54-32				
Signif	codesi	0'+++'0	0.001 **	0.01 '*'	0.05 *	-' 0.1 '*' 1	
p-valu	e of o	.032 <	p-value o	t 5%	signific	ance	
	⇒	We le	eject null	hypoth	esis	<u> </u>	

lo	Data secosded for yield in a randomized block design involving 6 treatments in 4 randomized blocks							
	Treatments and yields							
	1 2 3 4 5 6							
	B 1 24.7 20.6 27.7 16.2 16.2 24.9							
	0 2 27.3 28.8 22.7 15.0 17.0 22.5							
	C K 3 38.5 39.5 36.8 19.6 15.4 26.3							
	5 4 28.5 31.0 34.9 14.1 17.7 22.6							
ans	> data = c(Enter all data)  > Block = g1(4,6)  > lbdfit = aov(data-Block + Treatments)  > lbdfit  Call:  aov(formula = data ~ Block + Treatments)  Terms:							
	Blocks Treatments Residuals							
	Sum of squares 219.4279 901.1921 229.6396							
	Degree of freedom 3 5 15							
	Residual standard eyor: 3.912711							
	Estimated effects may be unbalanced							

					9
> Summau	—— Ч. ас	ov(lbdfit)	)	,	
	J			***************************************	
	Dt	Sum sq	Mean sq	F-value	P2 (>F)
Blocks	3	219.54	73.14	4.778	0.0157
Treatments	5	901.24	180.24	11.773	9.28e-05
Residuals	15	229.6	15.31		
Signif co	des:	0 '***	' 0.001 '**	r) 0.01 (x	0.05 . 0.1 '
9			1.1		
Interpreta	tion	;			
			ale not hor	nogenous,	hence
1			ects are no		
			1		