	10 25 JULY
	The state of the s
	HW 6
	25 65 67 37
6.2)	23 factorial replicated twice
	23 => 3 factors , each has 2 levels
	rep. twice => 2 × 23 = 16
H = E	Source to df the substitution of the substitut
CECE-	Main 3 (16-1) - 3-3-1
<u> </u>	2-way 3
152.412.	3-Way (e)
	Error 8 - 8 degrees of freedom for Error
	Total 15
6.4)	73 Protect 201 201 1 1 1 201
0.1	23 factorial replicated three times
888.8	Source of
£5.5-	Source de
225.5	A A FILE GOS
225.5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
225.5	B 1 $2^3 \times (3-1) = 16$ $2^k (r-1)$
220.5	B 1 $2^3 \times (3-1) = 16$ $2^k (r-1)$
325.5	A 1 = $\frac{2^3 \times (3-1)}{2^3 \times (3-1)} = \frac{16}{2^8 \times (7-1)}$ AB 1 $\frac{2^3 \times 3}{2^3 \times 3} = \frac{2^3 \times 7}{2^8 \times 1}$ AC 1
\$20.5 \$20.5	A 1 = $\frac{2^{3} \times (3-1)}{8} = \frac{16}{2^{3} \times (3-1)} = \frac{16}{2^{3} \times ($
220.5	A 1 Exper B 1 $2^{3} \times (3-1) = 16$ $2^{k}(r-1)$ C 1 Fotal AB 1 $2^{3} \times 3 - 1 = 23$ $2^{k}r - 1$ AC 1 BC 1 $k = \#$ Factors
	B 1 $2^{3} \times (3-1) = 16$ $2^{k}(r-1)$ C 1 $rotal$ AB 1 $2^{3} \times 3 - 1 = 23$ $2^{k}r - 1$ AC 1 BC 1 $r = \#$ replicates Error 16
	B 1 $2^{3} \times (3-1) = 16$ $2^{k}(r-1)$ C 1 6^{k} AB 1 $2^{3} \times 3 - 1 = 23$ 2^{k} $r - 1$ AC 1 BC 1 $k = \#$ Enctors ABC 1 $r = \#$ replicates Error 16
	B 1 $2^{3} \times (3-1) = 16$ $2^{k}(r-1)$ C 1 $rotal$ AB 1 $2^{3} \times 3 - 1 = 23$ $2^{k}r - 1$ AC 1 BC 1 $r = \#$ replicates Error 16
	B $2^{3} \times (3-1) = 16$ $2^{k}(r-1)$ C 6^{k} AB $2^{3} \times 3 - 1 = 23$ $2^{k}r - 1$ AC BC $k = \#$ Enctors ABC $r = \#$ replicates Error = 16 Total 23 $16 + 2 + not$ sig.
	B $2^{3} \times (3-1) = 16$ $2^{k}(r-1)$ C 6^{k} AB $2^{3} \times 3 - 1 = 23$ $2^{k}r - 1$ AC 6^{k} BC 6^{k} ABC 6^{k} For 6^{k} Total 23 6^{k} A 6^{k} Total 23 6^{k} A 6^{k} Total 23 6^{k} A 6^{k} Total 23 6^{k} Total 23 6^{k} Total 23 6^{k}

		(1)						
		(1)	22 31	25	78			
		a	32 43	29	104			
		b :	35 34	50	1 119			
		ab 9	ंड प्र	96	1 148			
(5)		C 4	4 45	38	127			
6.5)	a)		0 37	36	113	ations of	= 3 T2\$	
		bc 61		54	164	2 * 5		
	3 = 68	abc 3	9 41	47	127		E Sec	
	A= (104-)	78) + (148.	-119)+(113-127)+(127-1	64) = 26+2	9-14-37	4
	1-1-8	- 2 - (1	- 4×3		2 8			12
	B= (119-	78) + (14	8-104)+	(164-	127)+(127	-1131 4144		33)
			4×3			= =	12 =	12
	C= (127+1	13+164+			1-148)	82 = (6.83	_ (11.	33)
			4×3	NO T W	=	12 = (6.83	3)	
	AB = (148-	104-119	the contract of the contract of	75164	113+12-7	200		
			4×3		113+121)	- 12 =	(-1.66)	
	AC = (78.	- 104 + 119		7 + 113.	-164 - 1221		(17.0)	
	4	- 5.3	4×3	7 1 103	101112/)	= -106/12	= -8.833	
	BC = (78 + 1	34-119-1		-11-5 =	164 +1271	201		
	(1-0) 48	3 2 -	4×3	1101	101+121)	= - = =	-2.833	
	ABC = (127-	- 164 - uz	+127-14	8 +119	+ 104 - 781	-26	2 66	
			4×3		101 10)	= 12 =	-2.166	
	The effect	ets of B	C and	AC are	Significant			
	4							
	The estima	+ed Fac-	tor effe	otet an	e A=4, B	= 136, C=	821	
			eer to b					
			no live a		W N =			
								500

255 255	22 22 22	20-20-			
	عه رخد محدد و	7.7		W. 11.2	
6.5) b) SSA = 42/24	1 = .667 !	SC = -20%	4= 16 66=	! SSABC =	-
SSB = 1362/20	= 770.667	SC = -1062/2	9= 468.167	-262/24	-
SSc = 822/24	= 280.167 !	SSBC = -342/24	= 48.167	= 28.67	1
Source	dt 1018 22	S MS	E F	P	*
A	1 .667	2.667	022	₹ 883 ×	
В	1 770.667			<.0001 X	-
AB		280.167		:.0067 X	-
AC		16.667		20007	-
BC		48.167	1.6	.0009 X	
ABC	1 28.167	28.167	.93		
	6 482.66	30.166			
Total 2	23 2095, 33	2			-
BCE	AC are sign	ificant at 1	.,		1
		TICALL AT 3			
The second second	AND THE RESERVE OF THE PARTY OF	The second second			

T 180.85 (40).5	
the sale of the	Service and the service and th
(0.7) SE = 1 Effect 1 12k-2	$S^2 = \sqrt{(3)2^{(3-2)}(30.17)} = 2.24$
60 E. E. 12/1960.35	Hand 3-2- 100 12 - 32 (AZ) = 8
Variable	Effect
ENS. ENS. PARTE	- 333322- 30.52- 3782 = 52
В	N. 333 *
AB	-1.667 The 95% CI intervals
C	6.833 × For B, C, & AC do
CETES = STACES	-8.833 X - not have -zero.
BC	-2.833
ABC	=2.167 (0-1-10-00) = 3028
- 4 KOK - 632 - 50 18	WHERE SERVE SERVER STATE OF THE SERVER SERVER

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I I I
               14.037 16.165 13.972 13.907 | 58.081 (1)
               13.880 13.860 14.032 13.914 55.686
14.821 14.757 14.843 14.878 59.299
                                                   (a)
                                         55.686
                                                   (6)
                                                   66)
               14.888 14.921 14.415 14.932 59.156
     A = (59.156 + 55.686 - 59.299 - 58.081)/2(4) = 5.31725
6-14
      B= (59.156+59.299-55.686-58.081)/2(4)=.586
     AB = (59.156 + 58.081 - 55.686 - 59.299) /2(4) = .2815
     SS= (ab + a-b-(1))2/40 = (-2.538)2/16 = .40259
      SS_8 = (ab + b - a - (1))^2/4n = (4.688)^2/16 = 1.3735
    a) SSAB = (ab + (1) - a - b)^{2}/4n = (2.252)^{2}/16 = .3169
FS+, Factor Eppects: A= -2.538, B= 4.688, AB= 2.252
        Source SS DF MS F P
          A .4023 = 1 .4023 = 1.2607 = 7.1
           B 1,3736 = 1 1,3736 = 4,3046 = .05 < P < 1
          AB =3170 = 1 .3170 = 9934 = 23.1
          Error 3,8287 12 22,3191
         Total 5.9216
                       15
           In this model there are no significant terms.
           Table generated through RStudio
```