Multiple regression equation:

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$$a = \overline{Y} - b_1 \overline{X}_1 - b_2 \overline{X}_2$$

$$b_{1} = \frac{(\sum_{1}^{1} x_{2}^{2})(\sum_{1} x_{1}y) - (\sum_{1} x_{1}x_{2})(\sum_{1} x_{2}y)}{(\sum_{1} x_{1}^{2})(\sum_{1} x_{2}^{2}) - (\sum_{1} x_{1}x_{2})^{2}}$$

$$b_2 = \frac{(\sum x_1^2)(\sum x_2 y) - (\sum x_1 x_2)(\sum x_1 y)}{(\sum x_1^2)(\sum x_2^2) - (\sum x_1 x_2)^2}$$

$$\sum x_1^2 = \sum X_1 X_1 - \frac{(\sum X_1)(\sum X_1)}{N}$$

$$\sum x_2^2 = \sum X_2 X_2 - \frac{(\sum X_2)(\sum X_2)}{N}$$

$$\sum x_1 y = \sum X_1 Y - \frac{(\sum X_1)(\sum Y)}{N}$$

$$\sum x_2 y = \sum X_2 Y - \frac{(\sum X_2)(\sum Y)}{N}$$

$$\sum x_1 x_2 = \sum X_1 X_2 - \frac{(\sum X_1)(\sum X_2)}{N}$$

	\$x_ = 20 \$x_2 = 24 \$x_1x_1 = 90 \$x_2x_2 48 \$x_1y_2 48 \$x_1y_2								
	$\Sigma \times_2 Y = 45.6$ $\times_1 \times_2 = 99$ Σ Date / / Page No.								
Ł	у	X,	X ₂	X, X,	X2X2	X ₁ X ₂	X, Y	X ₂ Y	
	-3.7	3	8	9	649	24	-11-1	-29.6	
	3.5	4	. 5	16	25	20	14	17.5	
	2.5	. 5	7	25	49	35.	12.5	17.5	
	11.5	6	3	36	9	18	69	£934.5	
	5.7	2	1 1 1	4	1919	2	11.4	15.7	
X	7	3	2	TELEP.	11 24	10 19	N/I/A	T	
	19:5	20	24	90	148	99	95.8	45.6	
	# = bo + b, x, + b, x2								
	9	1 11 14	Palan	Linus	i a	E 20			
	b0 =	- J	v x	- b. x					
	138	0.3	4400t	Nature.		HAVE	C. C.		
	b, = 1	(8x,2) (22,	4) - (5 x, x,)	(Ex.	1)		
					- (2x)	The second secon	A CONTRACTOR OF THE PARTY OF TH		
3	-				viri y à		100		
	b2 = (22,2)(2x,y) - (22, 22) (22,y)								
	$(21^2)(21^2) - (2112)^2$								
	elen al		ST. SA			(12)	A SUSPINE	to the second se	

 $\frac{3 \cdot x_{1}^{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{1} - (3 \cdot x_{1})(3 \cdot x_{1})}{N}$ $\frac{3 \cdot x_{1}^{2}}{N} = \frac{3 \cdot x_{2} \cdot x_{2} - (3 \cdot x_{2})(3 \cdot x_{2})}{N}$ $\frac{3 \cdot x_{1} \cdot y_{1}}{N} = \frac{3 \cdot x_{1} \cdot y_{1} - (3 \cdot x_{1})(3 \cdot y_{1})}{N}$ $\frac{3 \cdot x_{2} \cdot y_{1}}{N} = \frac{3 \cdot x_{1} \cdot y_{2}}{N} - \frac{3 \cdot x_{1} \cdot y_{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{2}}{N} - \frac{3 \cdot x_{1} \cdot y_{2}}{N}$ $\frac{3 \cdot x_{1} \cdot x_{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{2}}{N} - \frac{3 \cdot x_{1} \cdot y_{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{2}}{N} - \frac{3 \cdot x_{1} \cdot y_{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{2}}{N} - \frac{3 \cdot x_{1} \cdot y_{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{2}}{N} - \frac{3 \cdot x_{1} \cdot x_{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{2}}{N} - \frac{3 \cdot x_{1} \cdot x_{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{2}}{N} - \frac{3 \cdot x_{1} \cdot x_{2}}{N} = \frac{3 \cdot x_{1} \cdot x_{1}}{N} = \frac{3 \cdot x$

$\bar{X}_{1} = 5$ $\bar{X}_{2} = 4.8$ $\bar{Y} = 19.5$
The second of th
$b_{2} = 5x_{1}^{2} = 90 - (20)(20)$
THE CAME OF SECTION SE
- 90 - 400
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$3x_2^2 = 148 - (24)(24)$
5
= 148 - 504
S. S
101111111111111111111111111111111111111
£2, y = 95-8 - (20)(19.5)
5
= 95.8 - 390
w in the trugger strategy party was the base of
=01095.81- 78
= 17.8
Ex 22y = 245.6 - (24)(19.5)
The state of the s
45.6 - 468 - 45.6 - 93.6
112 1.5 :4 1= -48

M-3	13 157 15 -48
	$3. x_1 x_2 = 99 - (20)(24)$
	90 85
	- 99 - 96
	0=3 and 1/2 on
	15th of 6 6 10 15 150 15 10 10 10
	b, = (47.2)(17.8) - (3)(-48)
	(10)(47.2) - (3)2
2	= 840.16 + 144 = 2.125
	472 - 9

b2 = (10)(-48) - 3(17.18)
(10)(41.2) - (3)2
-480 - 53.4 -533.4
472 - 9 463
1109
9 m = -1.152
bo = (3.9) - (2.125)(4) - (-1.152)(4.8)
= 13.9 - 8.5 + 5.52
= 6.92
Maria - Quella de la companya della companya della companya de la companya della
$y = b_0 + b_1 x_1 + b_2 x_2$
= (0.92) + (2.125)(3) + (-1.152)(2)
= 0.92 + 6.375 - 2.364
4.9913-14