

Two Way ANOVA

		A		
		$i=1$	$i=2$	$i=3$
B	$k=1$	$n=2$	$n=2$	-
	$k=2$	-	-	-
	$k=3$	-	-	-
	$k=4$	-	-	-

Raw Data

Summary Stats

$$a = 5$$

$$b = 4$$

$$n = 1$$

Bad !

↑
 (:) X correlations X A/B

$$N = n * a * b = 20$$

$$\chi^2_{\text{Total}} = 19$$

$$\chi^2_A = a - 1 = 4$$

$$\chi^2_B = b - 1 = 3$$

$$\begin{aligned}\chi^2_{\text{Error}} &= \chi^2_{\text{Total}} - \chi^2_A - \chi^2_B \\ &= 19 - 4 - 3 \\ &= 12\end{aligned}$$

$SS_A, SS_B, SS_{\text{Error}}.$

Table

	<u>df</u>	<u>SS</u>	<u>MS</u>	<u>F</u>
	..	20 2	MS _A 80.3/4	

(A)	4	...	$44.4/3$ MS_B <input type="text"/>
(B)	3	44.4	
Error	12	<u>59.3</u>	$59.3/12$ MS_{Error}
Total	19	Add	
