## Between subjects design: One-Way Analysis of Variance (ANOVA) —3 levels

DATA:					
	Gang 1	Gang 2	Gang 3	Mean	
	5	6	7	6.00	
	4	7	6	5.67	
	4	5	6	5.00	
	3	5	7	5.00	
Mean S.D.	4.00 0.82	5.75 0.95	6.50 0.58	Mean to	otal: 5.4
Computations					
Sums of squares (SS)			Degrees of freedom (df)		
Between Groups SS = $[r (\overline{X}_{group} - \overline{X}_{total})^2]$ where r : # of subjects/group			# of Groups - 1		
Within Group SS = $\begin{bmatrix} (X - \overline{X}_{group})^2 \end{bmatrix}$ where X : single score			# of Groups (# of Subjects/Group- 1)		
Total SS = $(X - \overline{X}_{total})^2$ where X : single score Table of variance: between subjects			# of scores - 1 SS/df like VARIANCE		
Between Groups	13.167	2	6.583	10.304	0.0047

9

11

0.639

5.75

18.92

Within Group

Total