27-11-2024

Enlist the results in APA format after performing ANOVA on the following data set:

[nmeansd 3050.2610.45 3045.3212.76 3053.6711.47]⌈ **n** 30 30 30
mean50.2645.3253.67**sd**10.4512.7611.47⌉⌉

Solution:

- *Variance of first set = (10.45)^2 = 109.2*

- *Variance of second set = (12.76)^2 = 162.82*

- *Variance of third set = (11.47)^2 = 131.56*

MS_{error} = {109.2 + 162.82 + 131.56} / {3}
= 134.53

$MS_{between}$ = (17.62)(30) = 528.75

F = $MS_{between}$ / MS_{error}
= 528.75 / 134.53

F = 4.86

APA writeup: $F_{(2, 87)}$=3.93, p >=0.01, η^2=0.08.