

Difference Statistics Practice

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Evegreen Valley College

Difference Statistics Practice

Scenario 1

The mean number of puzzles solved by the high depth perception group ($M = 14.13$, $SD = 3.60$) was higher than the mean for the low depth perception group ($M = 10.57$, $SD = 2.51$). The difference between the means was significant, $t(13) = 2.18$, $p = .048$, two-tailed.

Scenario 2

A Mann-Whitney test indicated that the rating of the opera was higher for people who read the plot ($Mdn = 73.5$) than for people who read a biography ($Mdn = 71.0$). The difference was not significant, $U = 49$, $p = .94$, two-tailed.

Scenario 3

A Wilcoxon signed ranks test showed that the rating of the breakfast bars was higher in natural light ($Mdn = 8.5$) than in artificial light ($Mdn = 7$). The difference was significant, $Z = 3$, $p = .02$, two-tailed.