

Project: Two Independent Sample Tests

A team of industrial psychologists studies the emotional maturity of high school graduate and high school dropouts employed in the same type of work. The test scores shown below are result from a standardized test given to random samples of subjects selected from the two populations.

High school graduates: 89 85 77 88 57 69 62 94 82 88 75 65 70
High school dropouts: 49 54 72 58 41 53 64 60 72 44 45 58

1. Are the data likely from normal distributed population?
2. Assuming that data were from normally distributed populations, perform a two independent samples t -test to see if there is significant different between the population means. (You must check the equality of variances assumption.)
3. Use the Wilcoxon (Mann-Whitney) test to determine whether we may conclude that two sampled populations have different medians, at 0.05 level of significance.