



ONE SAMPLE T-TEST

Is $N > 30$

YES: robust to Normality violations

NO - need to check normality

Is SKEW/s.e.Skewness < 2

YES: Normality Tenable

NO: normality not tenable

Test result may not be valid. Perform nonlinear transformation or nonparametric test.

Is the test 1-tailed (i.e. $H_1: \mu < c$ OR $H_1: \mu > c$) or 2-tailed (i.e. $H_1: \mu \neq c$)?

1-tailed

2-tailed

Does the sample mean differ in the hypothesized direction?

YES

NO

Is $p/2 < \alpha$?

YES

NO

Result is stat. sign. Report result, calculate and report effect size.

Result not stat. significant. Report result

Result is not stat. significant

For p-value, is $p < \alpha$? For confidence interval, is the null hypothesized value for μ outside of the CI?

YES

NO

Result is stat. sig. Look at sample mean to determine the direction of difference. Report result, calculate and report effect size.

Result is not stat. sig. Report result.