operational definition

constructs

extraneous factors (lurking variables)

population and samples

populations parameter ()

sample statistic (average) ()

independent variable (predictor variable) on the x axis

dependent variable (outcome) on the y axis

point estimate

# Formulas

Normal Distribution

|  |  |
| --- | --- |
| Mean |  |
| Variance |  |
| Standard Deviation |  |
| z score |  |
| Standard Error |  |
| z score of a sample |  |
| Margin of error |  |
| Sampling Standard Deviation | X |
| 1 sample t test |  |
| Cohen’s d |  |
| Correlation |  |
| Degrees of Freedom |  |
| Pooled Variance |  |
| Sample Error of Mean using pooled variance |  |

Information included in report results

* Descriptive Statistics
  + mean, stdev, graph
* Inferential Statistics
  + hypothesis test
    - kind of test
    - test statistic
    - df
    - p value
    - direction of test
    - alpha
  + APA Style
    - t(df) = x.xx, p=.xx, direction
  + Confidence intervals
    - CL
    - lower limit
    - upper limit
    - eg Confidence interval on the mean difference; 95% CI=(4,6)
* Effect size measures
  + d, r^2
    - d=x.xx
    - r=.xx