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The discrete 0-1 population: proportions.

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From the introduction: Statistics theory is the study of numerical properties of a population of numbers, the mean and standard deviation being properties of primary significance. We subsequently study proportions of a population of which each member belongs to one of two categorical groups. The statistical properties of proportions are, in general, the same as those pertaining to a particular population of numbers. College students in an introductory statistics course may wonder how these important proportions statistics relate to a population of numbers since most textbooks do not make this association. Hopefully, this presentation will be helpful to instructors of introductory statistics. This article presents a population of numbers, the statistics of which have the very same statistical properties of the proportions of a population comprised of two categorical groups.

Classification: K65 K45

Keywords: 0-1 population; sample mean; variance; binomial distribution; sampling distribution of the mean