

# **SAMPLING DISTRIBUTION FOR THE PROPORTION**

**Frances Rebello**

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### **Distribution of the Sample Proportion**

The Sampling Distribution of the Sample Proportion If repeated random samples of a given size  $n$  are taken from a population of values for a categorical variable, where the proportion in the category of interest is  $p$ , then the mean of all sample proportions ( $\hat{p}$ ) is the population proportion ( $p$ ).

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### **Sampling Distribution of a Proportion**

The sampling distribution of  $p$  is the distribution that would result if you repeatedly sampled 10 voters and determined the proportion ( $p$ ) that favored Candidate A.

## Population proportion - Wikipedia

If repeated samples of size  $N$  were taken from the population and the proportion passing ( $p$ ) were determined for each sample, a distribution of values of  $p$ .

## Proportion Distribution | Real Statistics Using Excel

Example: Sampling Distribution for a Sample Proportion. •  
Suppose (unknown to us) 40% of a population carry the gene for a disease ( $p$ ).

## Sampling distribution of a sample proportion example (article) | Khan Academy

By Deborah J. Rumsey. If you use a large enough statistical sample size, you can apply the Central Limit Theorem (CLT) to a sample proportion for categorical.

- Sampling Distributions for Sample Proportion,  $p$ -hat | STAT  
Sampling Dotplot of Proportion. 0.

Related books: [Gods Promises for Couples](#), [Now I Get It! Teaching Struggling Readers to Make Sense of What They Read](#), [Les Troyens d'Hector Berlioz: ou La tragédie de l'Absence \(French Edition\)](#), [Complete Surrender](#), [Moving Mountains](#), [John Pond of Oaks](#).

Inference Methods for Independent Samples We use the  $t$ -distribution when the sample size is small, unless the underlying distribution is not normal.

In the population, half of the births result in boys; and half, in girls. A natural question is, what does this have to do with sample proportions? In this way, we create a sampling distribution of the mean. These relationships are shown in the equations below:.

After that walk-through, we will tie these ideas to more formal theory. Notice Bechtel says:.