Name(s)

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Project Number

J1201

Project Title

Standard Deviation Comparisons of Population Sizes

Abstract

Objectives/Goals
I am trying to determine how large a survey sample must be to get an accurate representation of a whole population.

Methods/Materials
I rolled a dice 600 times and recorded it then plugged in different sizes of samples of the population into an equation to determine the standard deviation.

Results
15% of the whole population will give you an accurate representation.

Conclusions/Discussion
The smallest sample required for reliable results is 15% of the whole population.

Summary Statement

I am trying to determine statistically how large a survey sample must be to get an accurate representation of a whole population.

Help Received