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Resource ID#: 42458

Primary Type: Problem-Solving Task

## Election Poll, Variation 2

This task introduces the fundamental statistical ideas of using data summaries (statistics) from random samples to draw inferences (reasoned conclusions) about population characteristics (parameters). In the task built around an election poll scenario, the population is the entire seventh grade class, the unknown characteristic (parameter) of interest is the proportion of the class members voting for a specific candidate, and the sample summary (statistic) is the observed proportion of voters favoring the candidate in a random sample of class members. Variation 2 leads students through a physical simulation for generating sample proportions by sampling, and re-sampling, marbles from a box.

**Election Poll, Variation 2 Revised (Microsoft Word):** This file includes the task and related information in Microsoft Word format.

**Election Poll, Variation 2 Revised (PDF):** This file includes the task and related information in PDF format.

### General Information

**Subject(s):** Mathematics

**Grade Level(s):** 7

**Intended Audience:** [Educators](#), [Students](#), [Parents](#)

**Instructional Time:** 15 Minute(s)

**Freely Available:** Yes

**Keywords:** Election Poll Variation 2, election, poll, sample, statistics, population, cpalms, icpalms, illustrativemathematics.org, illustrative mathematics, tasks, mathematics, math, Florida standards, resource, free, freely available, problems-based learning, student activities, random sample, inference

**Instructional Component Type(s):** [Problem-Solving Task](#)

**Resource Collection:** Illustrative Mathematics

### Source and Access Information

**Contributed by:** Brian Carmichael

**Name of Author/Source:** Brian Carmichael

**District/Organization of Contributor(s):**

**Is this Resource freely Available?** Yes

**Access Privileges:** Public

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### Aligned Standards

Name	Description
<a href="#">MAFS.7.SP.1.2:</a>	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions. For example, estimate the mean word length in a book by randomly sampling words from the book; predict the winner of a school election based on randomly sampled survey data. Gauge how far off the estimate or prediction might be.