Samples and distributions - Lesson overview

In this lesson, we will introduce the **concept of probability** and delve into how to **apply the empirical probability approach** to data.

We will explore the concept of **sample and population data** and how **sample sizes** affect **confidence intervals** and the **margin of error**.

Learning objectives

- Understand the basic concepts and terminology of probability theory.

- Be familiar with the empirical probability approach and how to apply it to data in Google Sheets.

- Understand the concept of sample and population data and how increasing the sample size affects the confidence interval and margin of error.

- Understand what confidence level, margin of error, and Z-score are in relation to the sample size.

📖 **Slide deck**

📋 **Knowledge questions**

⚙ **Walk-through**

📇 **Reference card**

▶ **Video**

Samples and distributions

START

Introduction to probability
4 min   5 min

Probability in Sheets
4 min

Sample and population data
8 min   5 min

Samples and sample sizes
10 min   5 min

Sample sizes vs confidence interval
7 min