

STAT157 HW 1

Jan 19, 2022

Due Monday, January 24 at 7pm

Logistics Setup

Expected completion time: 12 minutes

Install a time-tracking app as described in the “Predictions” section, and submit a screenshot or photo showing it has been installed.

(TODO: JS denain add instructions on logging into the leaderboard)

Deliberate Practice

Expected completion time: 80 minutes

Go to <https://www.openphilanthropy.org/calibration> and sign in (either create an account or use Gmail/Facebook). Click “Home” and complete the following exercises in the app:

- Confidence intervals (level 80%) – at least 30 questions
- 30 questions each from two of the other categories (i.e., two out of PolitiFact, Correlations, City Populations, Math, and Trivia).

(Of course, feel free to answer more questions if you would like!)

At the end, go to the “Results” tab and take screenshots showing that you completed at least 30 questions in each category, as well as your calibration performance (the chart that appears below the results).

Predictions

Expected completion time: 25 minutes

Register the following predictions. You can submit them by going to <https://forms.gle/Z9S48GfsTgjA2bHW9> and following the form's instructions.

- Pick a website, application, or software of your choice. Predict how much time you will spend on it between 12:00am Tuesday January 25th and 11:59pm Sunday January 30th. You should track this **using a time-tracking app** such as Screen Time (if you have macOS Catalina or later), Rescue Time, Digital Wellbeing (Android), or any another tracker you prefer.¹
- Predict how many people will be in the Zoom lecture at 11:15am on Wednesday, January 26th.

This will resolve based on a count conducted by the course staff.

- Which motion picture will have the maximum domestic gross on the weekend of Jan 28-30?

This will resolve according to Box Office Mojo.

For each question, submit a mean, 80% confidence interval, and an explanation of your reasoning (1-2 paragraphs). For the last two questions, your prediction (but not the explanation) will appear on the public leaderboard. The first question will remain private to you and not count towards the leaderboard.

¹Note that some desktop apps record screen time even when an app is open in the background; you might want to be careful about this when making predictions or choosing the application.