

# STAT157 HW 1

Jan 19, 2022

**Due Monday, January 24 at 7pm**

## Logistics Setup

*Expected completion time: 10 minutes*

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

## 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: 35 minutes*

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

0. 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.<sup>1</sup>
1. Wow 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.
2. How many dollars will the movie Scream gross in the US on the weekend of Jan 28-30?  
This will resolve according to Box Office Mojo.
3. Will Scream be the highest-grossing movie in the US on the weekend of Jan 28-30?  
This will also resolve according to Box Office Mojo.

For each question, submit a mean and 80% confidence interval (or a probability for question 3), as well as an explanation of your reasoning ( 1-2 paragraphs).

For questions 1-3, your prediction (but not the explanation) will appear on the public leaderboard. Question 0 will remain private and not count towards the leaderboard.

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<sup>1</sup>Note 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.