

Lab 2F: The Titanic Shuffle

Directions: Record your responses to the lab questions in the spaces provided.

Previously ...

The Titanic

- Based on the plot, do you believe wealthier passengers on the Titanic were more likely to survive? Explain why and describe how certain you are of being correct.

The search begins!

- What was the *typical* fare paid by survivors? Non-survivors? How much more did the typical survivor pay?

Do the shuffle!

Put your simulations to use

- By using your shuffled data, answer the research question we posed at the beginning of the lab.
- Write up your answer as a statistical analysis. Create a plot and explain how the plot supports your conclusion. Be sure to also explain why shuffling your data is important.

Comparing Mean Fares

- If we did this 500 times, what do you predict the distribution of differences will look like?
- What does the shuffled data reveal? Does the answer to the research question below change when using the mean fares instead of the median fares?