

# G1: Collaborative assignment: In or out of class

"Zero" How can it be represented and misrepresented in data reporting.

The concept of p-value

coming to terms with uncertainty, by focusing a project on looking at a topic - through a news article - but thinking about what the issues with data quality are

Hypothesis testing can be a difficult subject for some students to understand.

Quantitative methods and statistics to sociology students

Ways of visualising data and communicating that.

F test in one way anova is not a two-sided test

A task on data cleaning after providing a synthetic data set with common issues to solve.

P-value and how to use it to make conclusion for hypothesis testing

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Provide a visualisation or a dataset with 'errors' to spot which could be discussed.

learning that sources of statistics are not always readily available. Good for students starting out to raise awareness of the breadth of stats published - you just need to look

Interpretation of correlation

There being multiple approaches of solving a problem - getting students to justify their approaches.

Why we say "failed to reject" - a double negative instead of saying accept null?

# Focused **WRITTEN** discussion around complicated topic (e.g., p-value, power of a test, etc)

I would create a real life activity, using real data for them to work with. Then I'd let them discuss in groups, for instance using Facebook or WhatsApp.

social media discussion

get them to watch a video and then pose questions and ask them to discuss on social media/a forum

Ask them to explain the value if certain statistics tests and discuss possible limitations