Experiments:

Gender, Confidence, and the Mismeasure of Intelligence, Competitiveness and Literacy

by

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The experiments on **Intelligence** used the Raven task. All instructions are provided in Appendix A in the SUPPLEMENTARY file, included here as a PDF. One treatment was the basic "pen and paper" task, as a control to reflect the way that the usual Raven survey is administered: this is referred to in the Instructions as C. The main treatments were using either 80 or 1 token to allocate, and be rewarded used a Quadratic Scoring Rule: these are referred to in the Instruction as R80 and Rone, respectively. In the experiments subjects were provided with written instructions and a video reading through the instructions. These are also provided as MP4 files:

Raven Instructions -- C.mp4
Raven Instructions -- R80.mp4
Raven Instructions -- Rone.mp4

The experiments on **Competitiveness** also used the Raven task, but in smaller sets. All instructions are provided in Appendix C in the SUPPLEMENTARY file, included here as a PDF. In Part 1 of that experiment the subject either had 80 tokens or 1 token, and that affected the instructions. In all later Parts of that experiment the instructions were general, and did not need to say whether there was 1 token or 80 tokens. In the experiments subjects were provided with written instructions and a video reading through the instructions. These are also provided as MP4 files:

Raven Instructions -- Comp1 -- Part 1.mp4
Raven Instructions -- Comp80 -- Part 1.mp4
Raven Instructions -- Part 2.mp4
Raven Instructions -- Part 3.mp4
Raven Instructions -- Part 4.mp4
Raven Instructions -- Part 5.mp4
Raven Instructions -- Part 6.mp4

The experiments on **Literacy** used the software for belief elicitation developed and documented by Harrison, Martínez-Correa, Swarthout and Ulm, "Scoring Rules for Subjective Probability Distributions," *Journal of Economic Behavior & Organization*, 134, 2017, 430-448 and Harrison, Morsink and Schneider, "Literacy and the Quality of Index Insurance Decisions," *Geneva Risk & Insurance Review*, 2022, 47, 66-97.

Experiments to elicit **risk preferences** were also conducted. The instructions and lottery batteries are provided in published papers cited in the text, but also included in the *DataVerse* online archive. The 2019 and 2022 versions of these instructions differed with respect to how they handled

randomizations to determine the selected lottery for payment and the realization of outcomes for that selected lottery. In the 2019 experiments these randomizations were done by hand by research assistants, with each subject. In the 2022 experiments these randomizations were undertaken by the software, as explained in the instructions. In the 2022 instructions the video illustrates how the randomizations were made. The videos for both instructions are provided as MP4 files:

Risk Instructions 2019.mp4
Risk Instructions 2022.mp4