Online Appendix for Should I State or Should I Show? Aligning AI with Human Preferences

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1 Experimental Screenshots

1.1 Informed Consent

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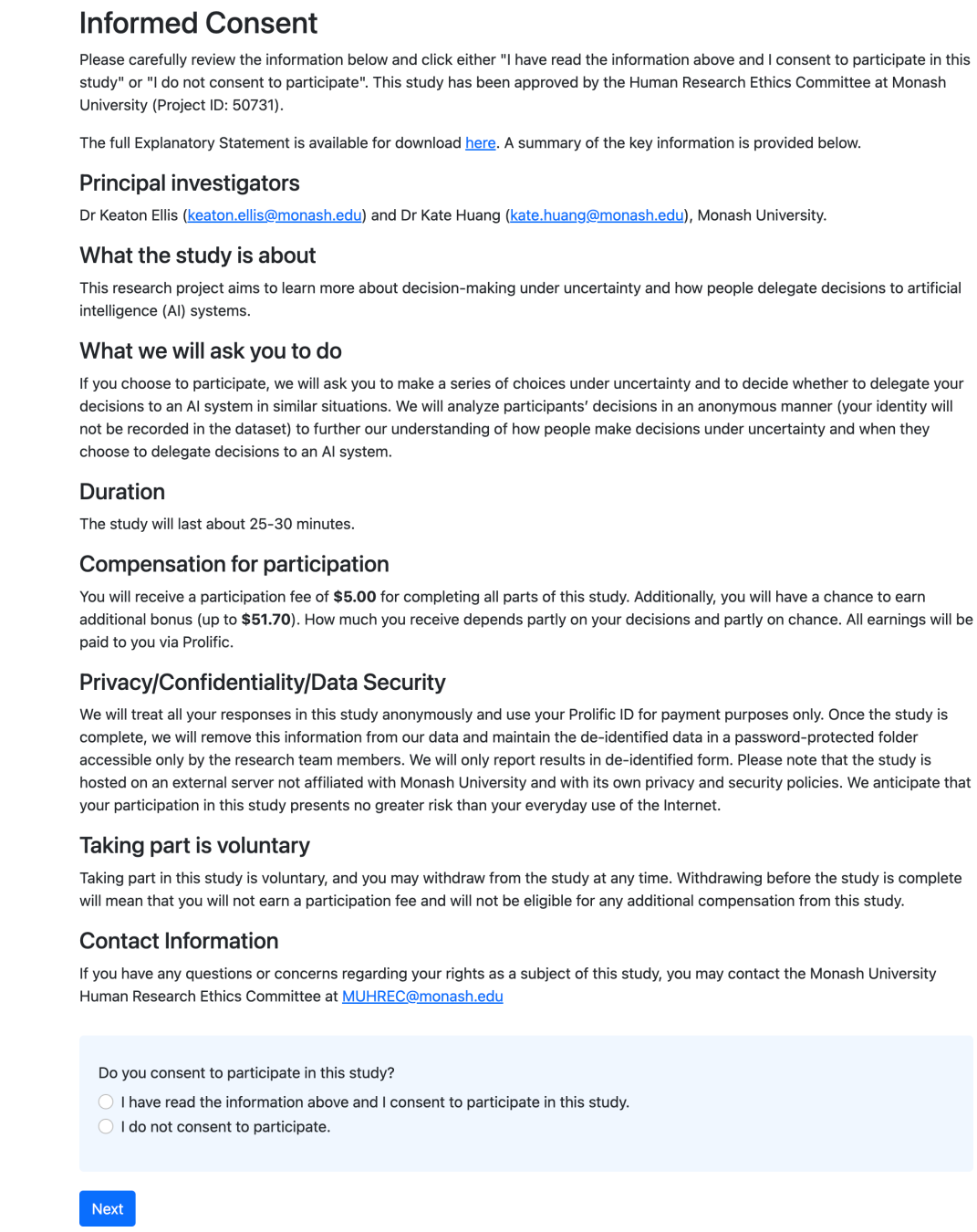

Informed Consent

Please carefully review the information below and click either "I have read the information above and I consent to participate in this study" or "I do not consent to participate". This study has been approved by the Human Research Ethics Committee at Monash University (Project ID: 50731).

The full Explanatory Statement is available for download here. A summary of the key information is provided below.

Principal investigators

Dr Keaton Ellis (keaton.ellis@monash.edu) and Dr Kate Huang (kate.huang@monash.edu), Monash University.

What the study is about

This research project aims to learn more about decision-making under uncertainty and how people delegate decisions to artificial intelligence (AI) systems.

What we will ask you to do

If you choose to participate, we will ask you to make a series of choices under uncertainty and to decide whether to delegate your decisions to an AI system in similar situations. We will analyze participants' decisions in an anonymous manner (your identity will not be recorded in the dataset) to further our understanding of how people make decisions under uncertainty and when they choose to delegate decisions to an AI system.

Duration

The study will last about 25-30 minutes.

Compensation for participation

You will receive a participation fee of **$5.00** for completing all parts of this study. Additionally, you will have a chance to earn additional bonus (up to **$51.70**). How much you receive depends partly on your decisions and partly on chance. All earnings will be paid to you via Prolific.

Privacy/Confidentiality/Data Security

We will treat all your responses in this study anonymously and use your Prolific ID for payment purposes only. Once the study is complete, we will remove this information from our data and maintain the de-identified data in a password-protected folder accessible only by the research team members. We will only report results in de-identified form. Please note that the study is hosted on an external server not affiliated with Monash University and with its own privacy and security policies. We anticipate that your participation in this study presents no greater risk than your everyday use of the Internet.

Taking part is voluntary

Taking part in this study is voluntary, and you may withdraw from the study at any time. Withdrawing before the study is complete will mean that you will not earn a participation fee and will not be eligible for any additional compensation from this study.

Contact Information

If you have any questions or concerns regarding your rights as a subject of this study, you may contact the Monash University Human Research Ethics Committee at MUHREC@monash.edu

Do you consent to participate in this study?

- ○ I have read the information above and I consent to participate in this study.
- ○ I do not consent to participate.

Next

FIGURE 1: Informed Consent

1.2 Study Overview and Instructions

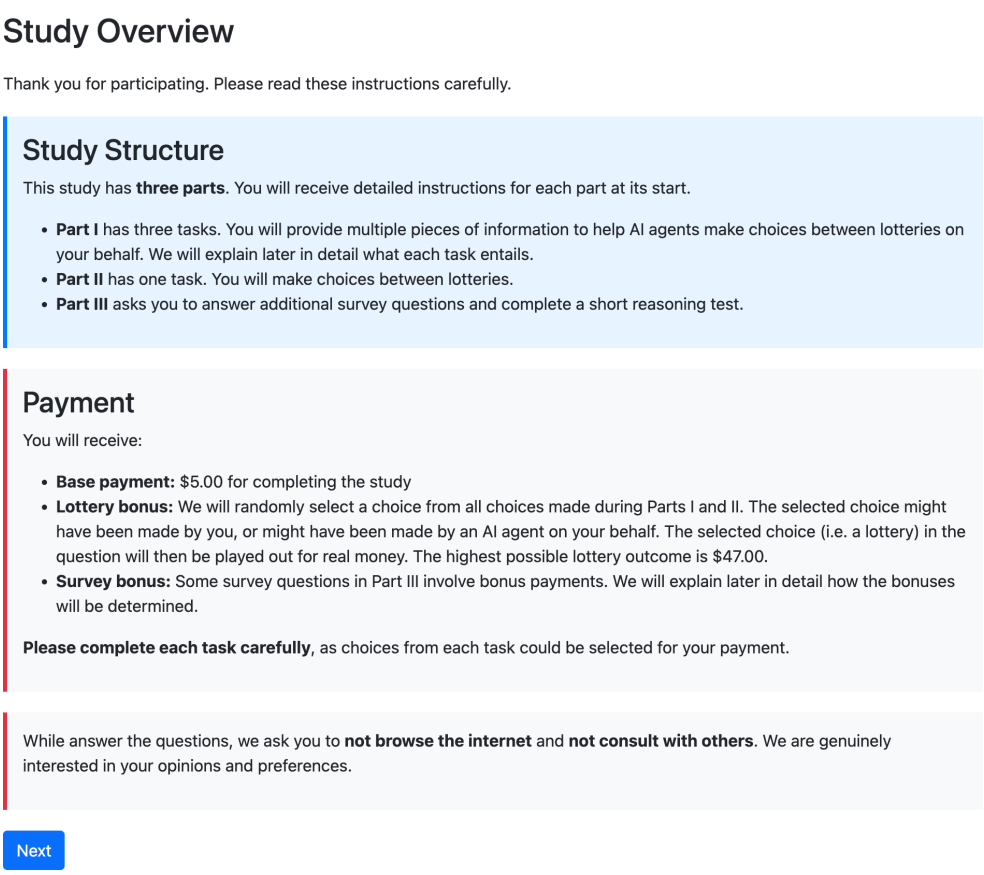

FIGURE 2: Study Overview

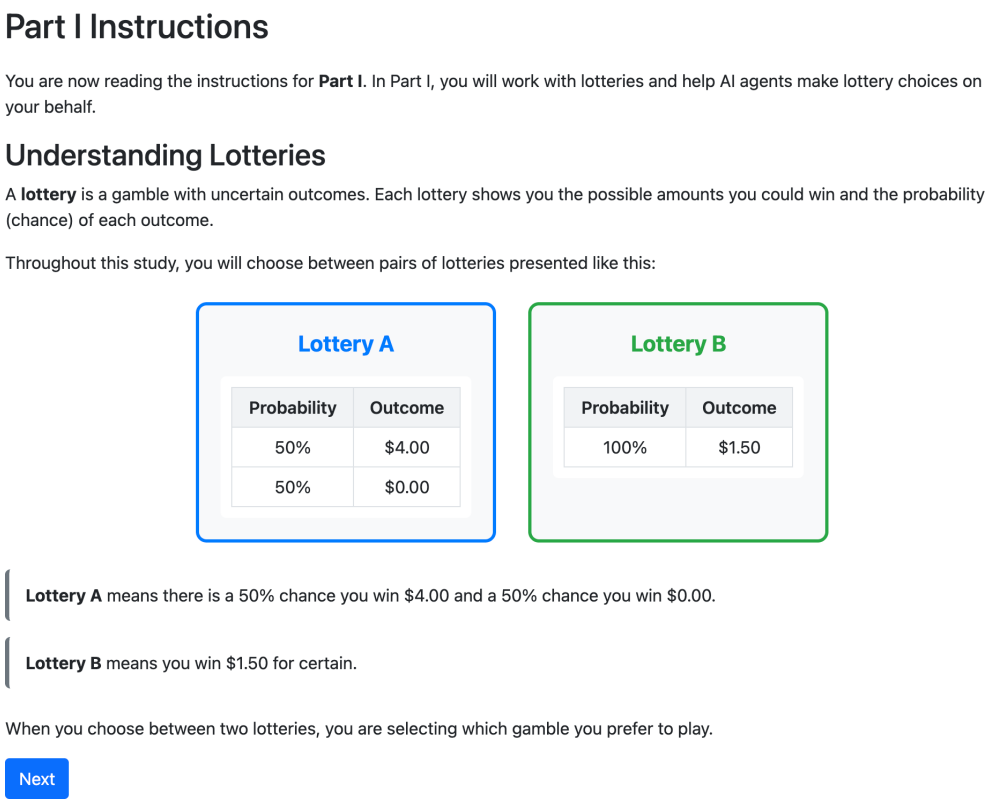

FIGURE 3: Part I Instructions: Understanding Lotteries

Part I Instructions

Additional Information About Lotteries

When picking, you will see five additional pieces of information:

Average Payment: (also known as "expected value") This is the average payment the lottery would pay out if it were played many, many times. Lotteries with higher average payments pay more on average, but there is still randomness to how much they pay each time. To calculate the average payment, we multiply each outcome by the probability of that outcome occurring and add this up for all the outcomes.

Payment Variability: (also known as "variance") This is a measure of how much payments can vary. Lotteries with higher payment variability pay amounts that are more spread out, which often means the difference between the larger and lower payment is larger. To calculate the payment variability, we subtract each outcome from the average payment, square it, and then add this up for all the outcomes, weighted by the respective probabilities.

Minimum Payment: This is the minimum possible amount the lottery could pay.

Maximum Payment: This is the maximum possible amount the lottery could pay.

Chance of Max Payment: This is the probability that the lottery pays the Maximum Payment.

We will show you two lotteries, and you can access this additional information about them by clicking on the buttons at the bottom, as we show below. When you click on a button, it will display that information for both lotteries:

Lottery A

Probability	Outcome
50%	$4.00
50%	$0.00

Lottery B

Probability	Outcome
100%	$1.50

Additional information:

Average Payment | Payment Variability | Minimum Payment | Maximum Payment | Chance of Max

Please click on the buttons above to get a sense of how this works for the example lotteries above.

When making your choices between lotteries, you will be able to click to learn as many pieces of additional information you want about the lotteries. If you wish, you can use this information to help you make your choices. **Please note that you do not have to use these buttons at all; they are just for your convenience.**

When you are ready, continue.

Next

FIGURE 4: Part I Instructions: Additional Information About Lotteries

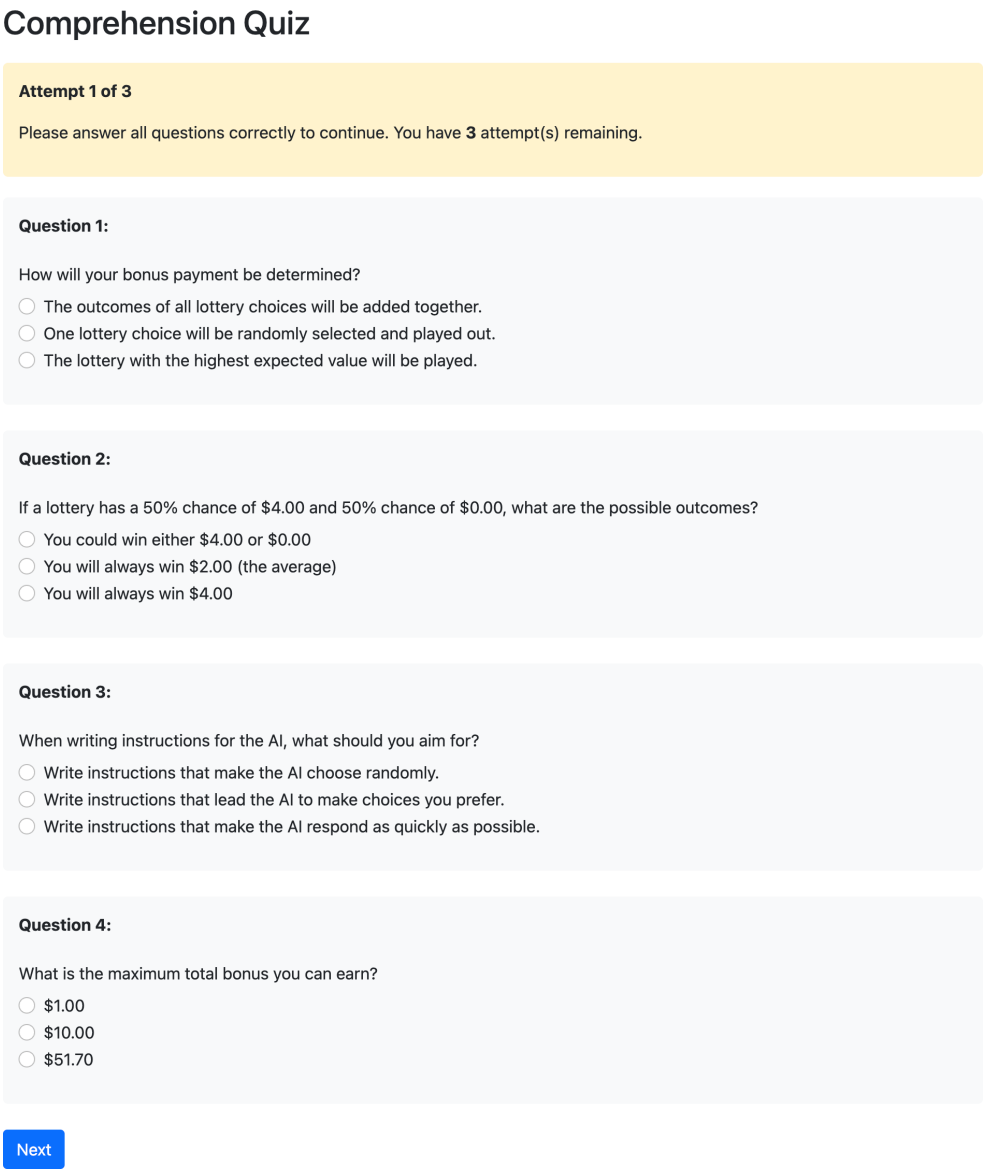

FIGURE 5: Comprehension Quiz

1.3 Part I, Task 1: Initial Lottery Choices

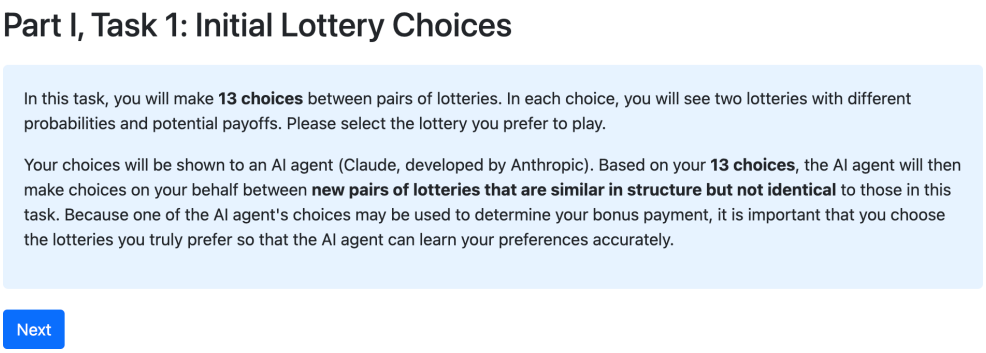

FIGURE 6: Part I, Task 1 Introduction

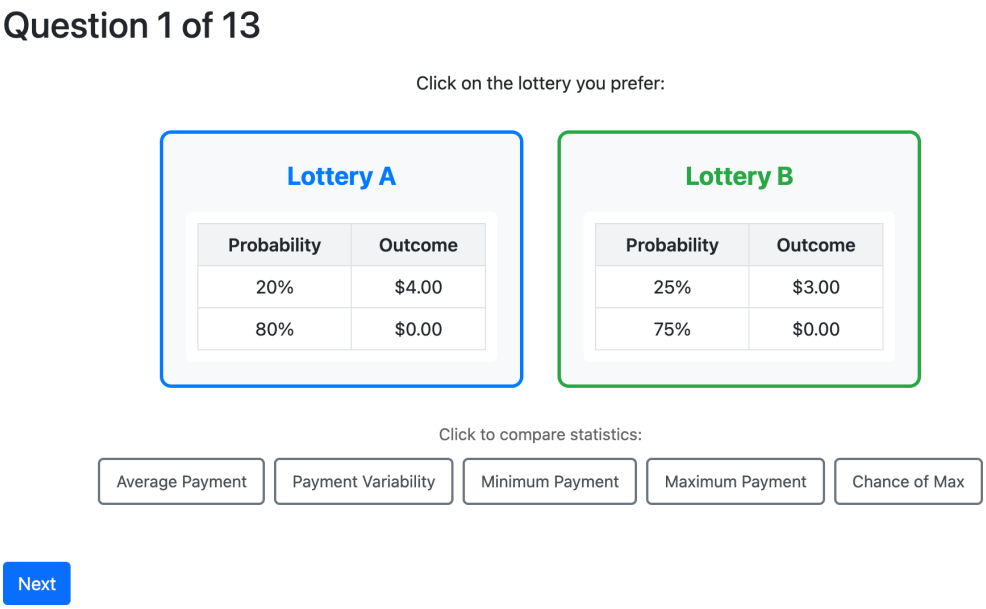

FIGURE 7: Lottery Choice Screen (Part I)

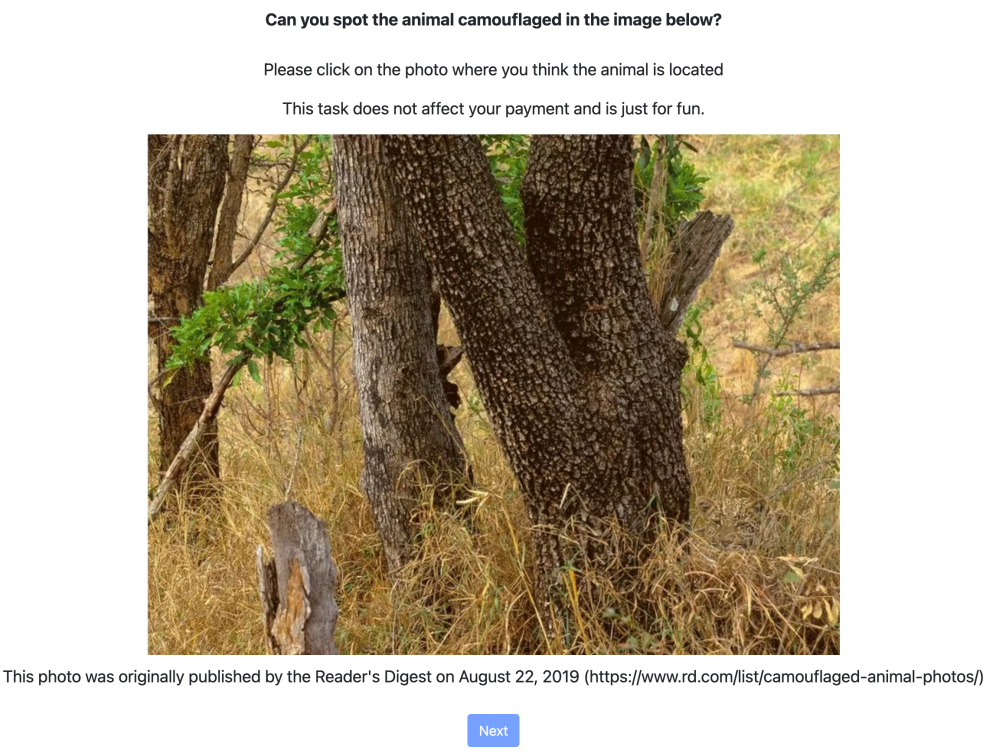

FIGURE 8: Attention Break

1.4 Part I, Task 2: Writing Instructions for an AI

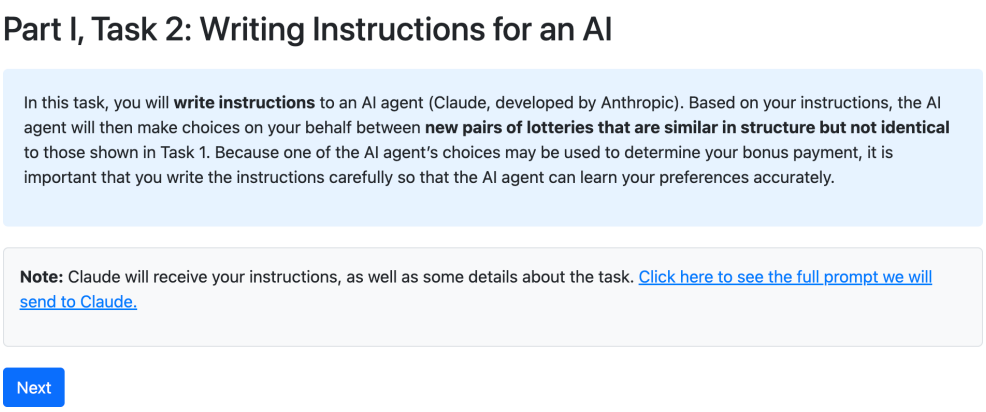

FIGURE 9: Part I, Task 2: Writing Instructions for an AI

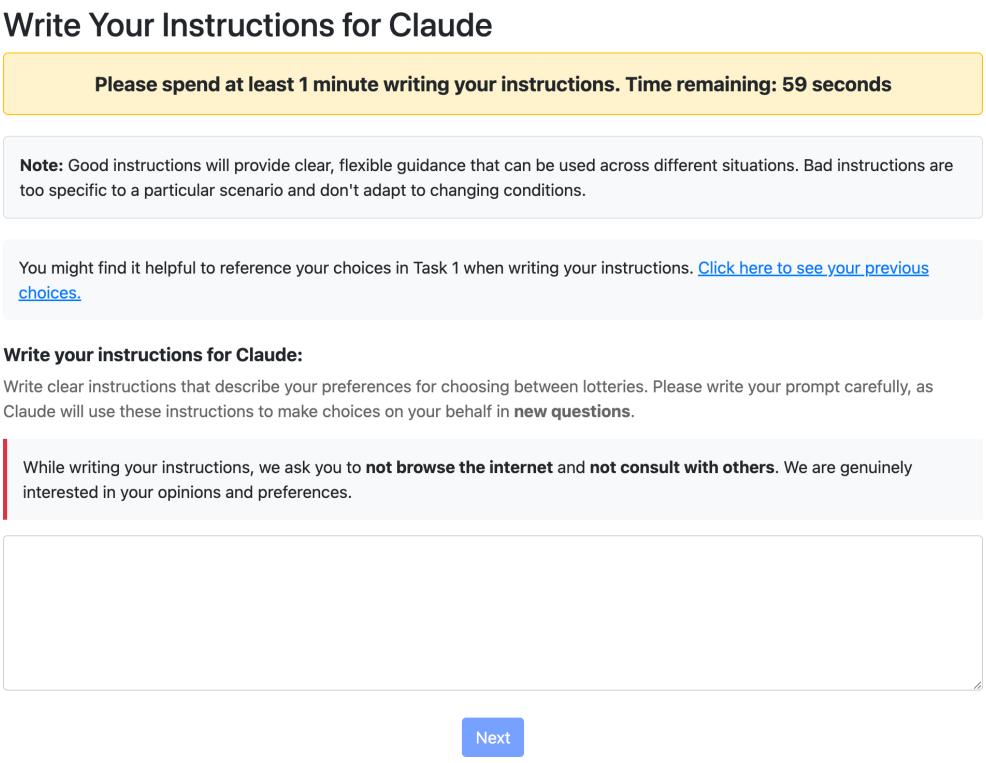

FIGURE 10: Write Your Instructions for Claude

1.5 Part I, Task 3: Delegation Choice

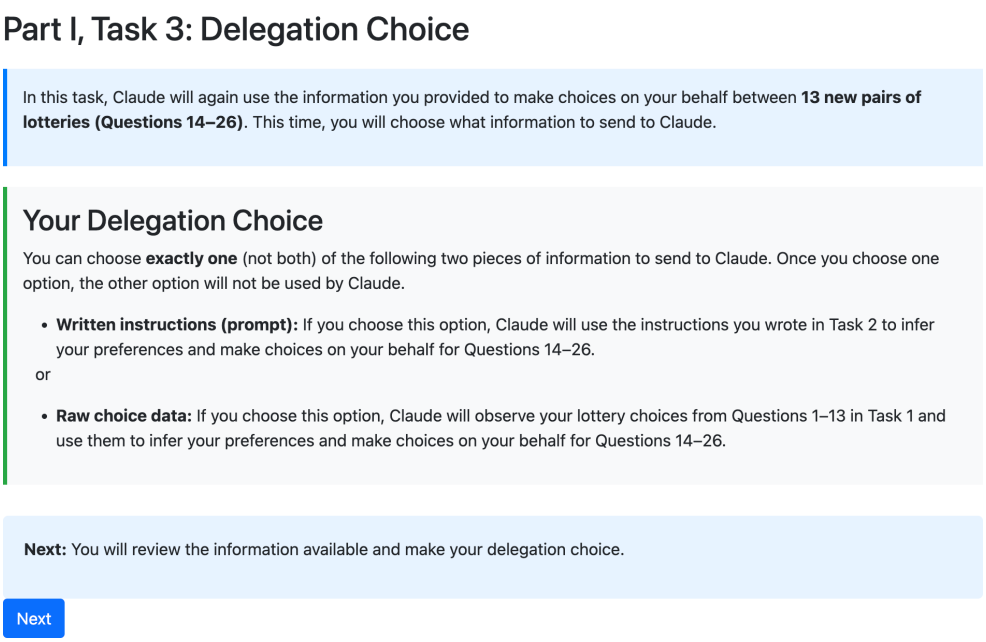

FIGURE 11: Part I, Task 3: Delegation Choice

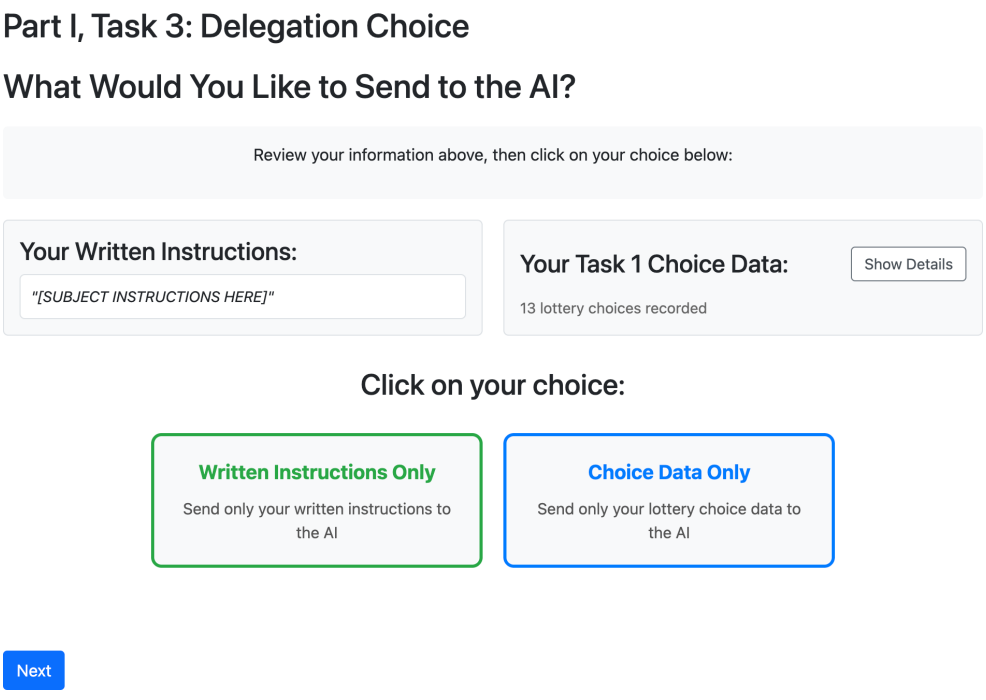

FIGURE 12: Delegation Choice Screen

1.6 Part II: Your Lottery Choices

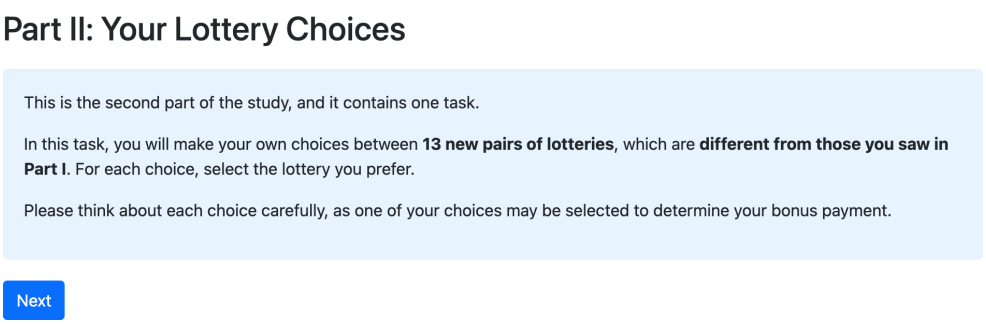

FIGURE 13: Part II: Your Lottery Choices

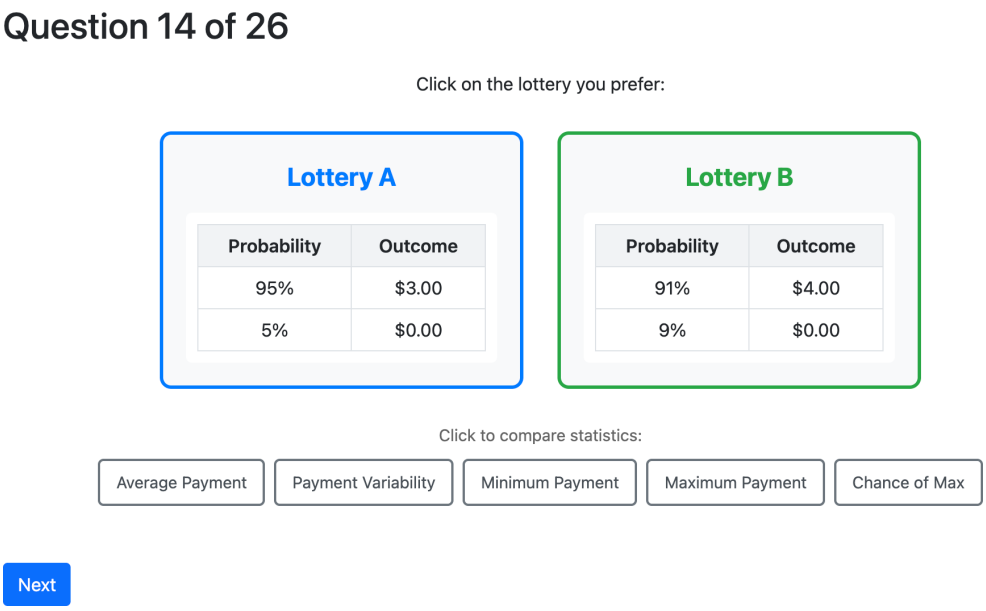

FIGURE 14: Lottery Choice Screen (Part II)

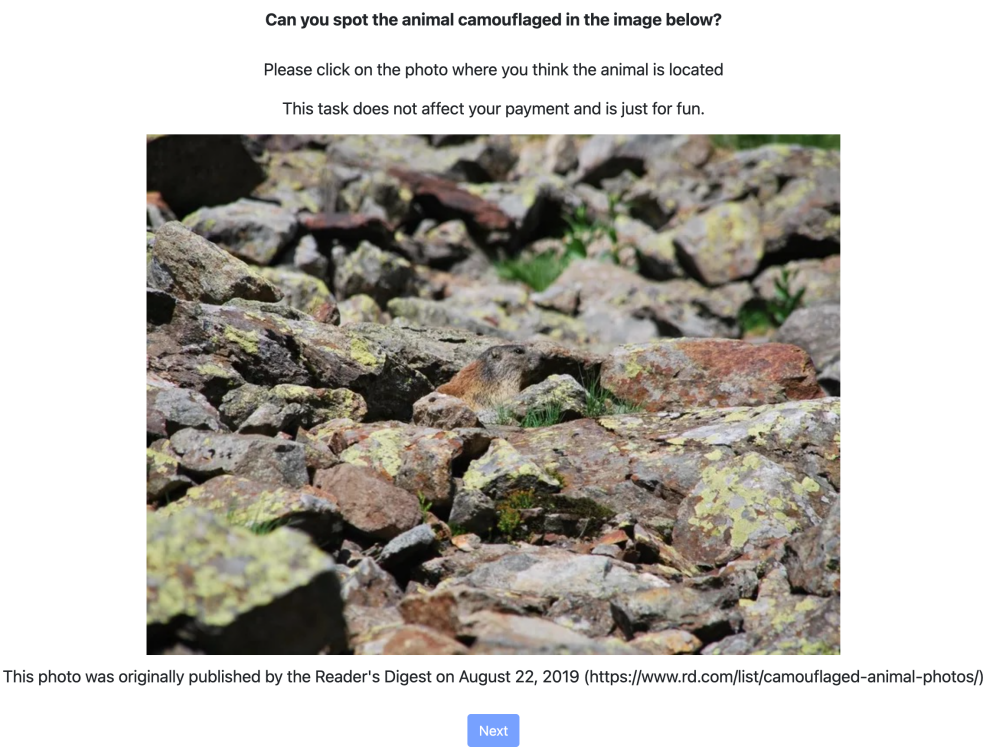

FIGURE 15: Attention Break

1.7 Part III: Exit Survey

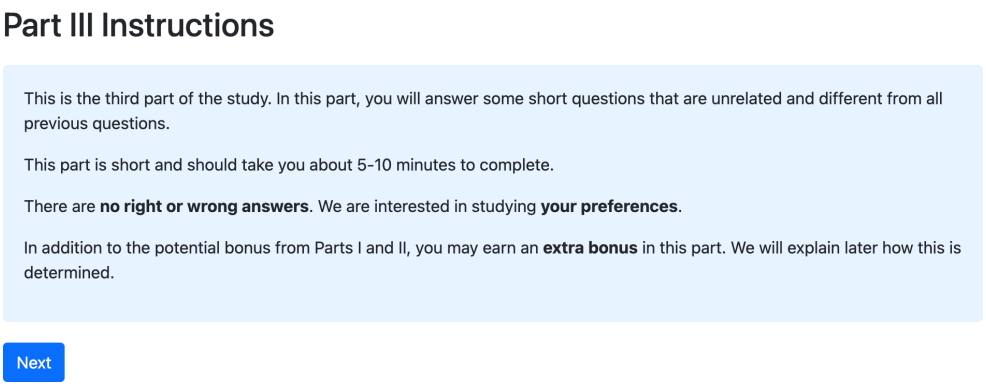

FIGURE 16: Part III Instructions

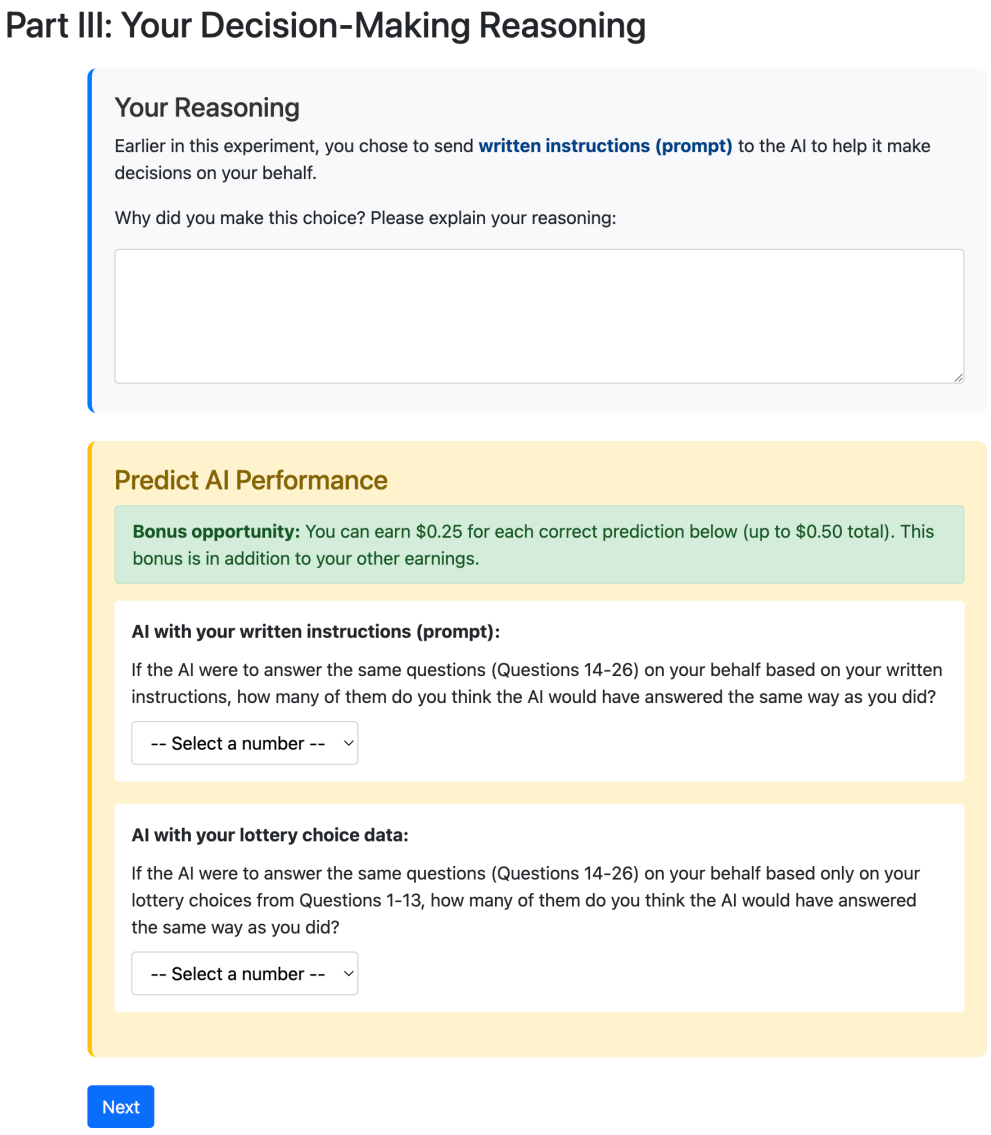

FIGURE 17: Part III: Your Decision-Making Reasoning

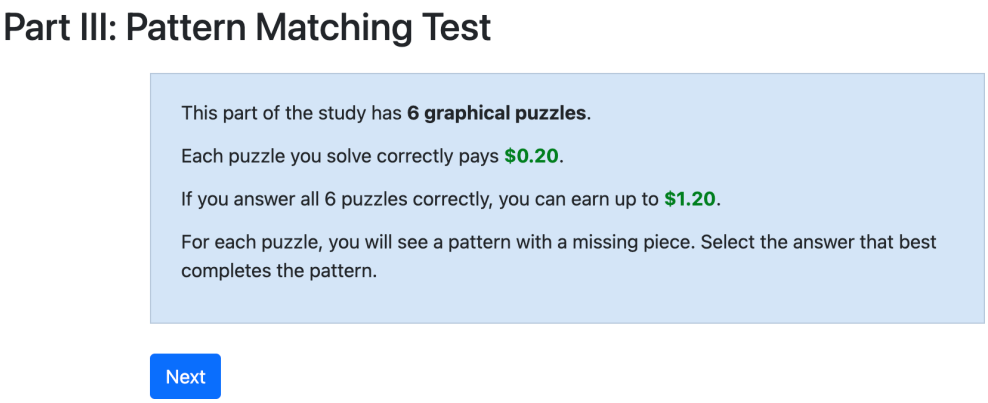

FIGURE 18: Pattern Matching Test Introduction

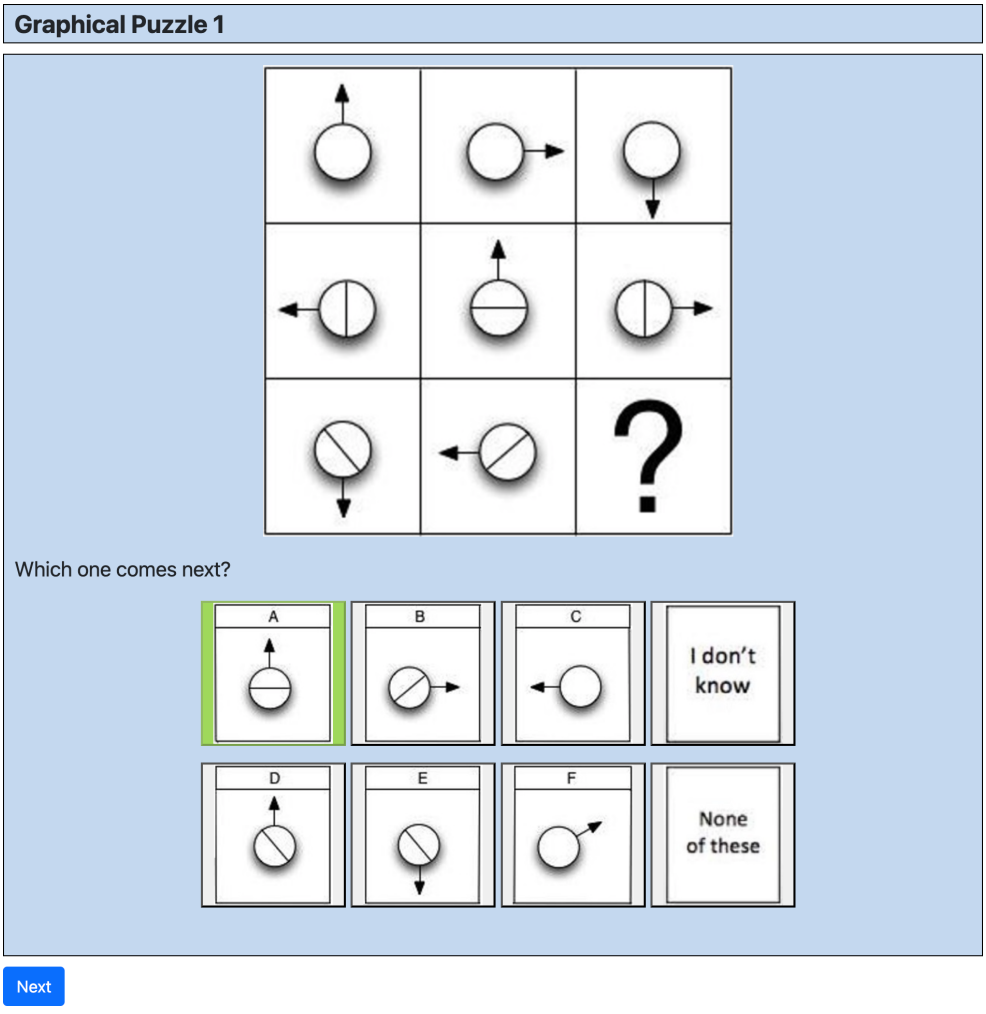

FIGURE 19: Pattern Matching Test: Example Puzzle

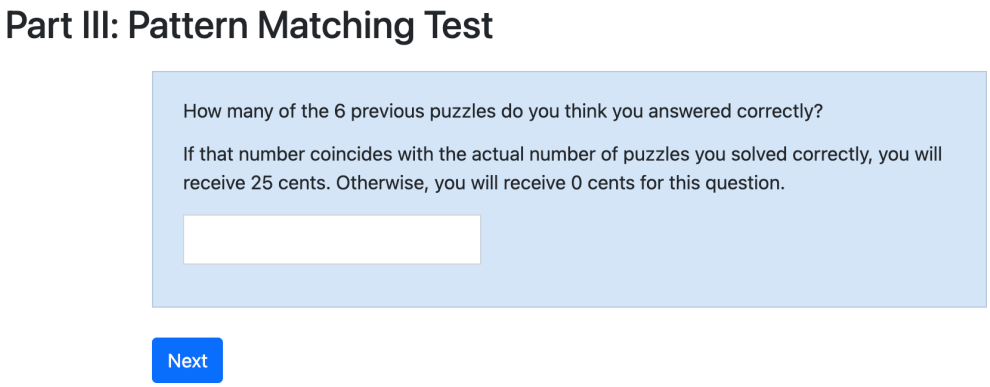

FIGURE 20: Pattern Matching Test: Self-Assessment

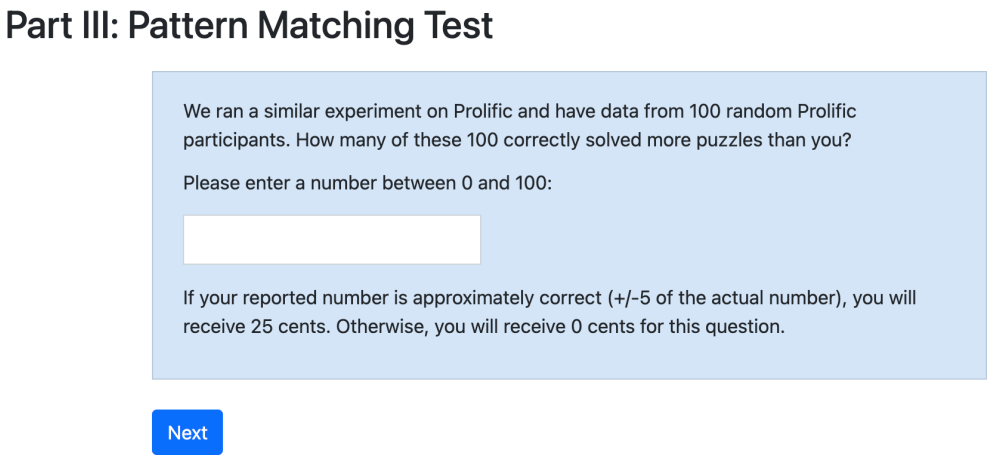

FIGURE 21: Pattern Matching Test: Relative Performance

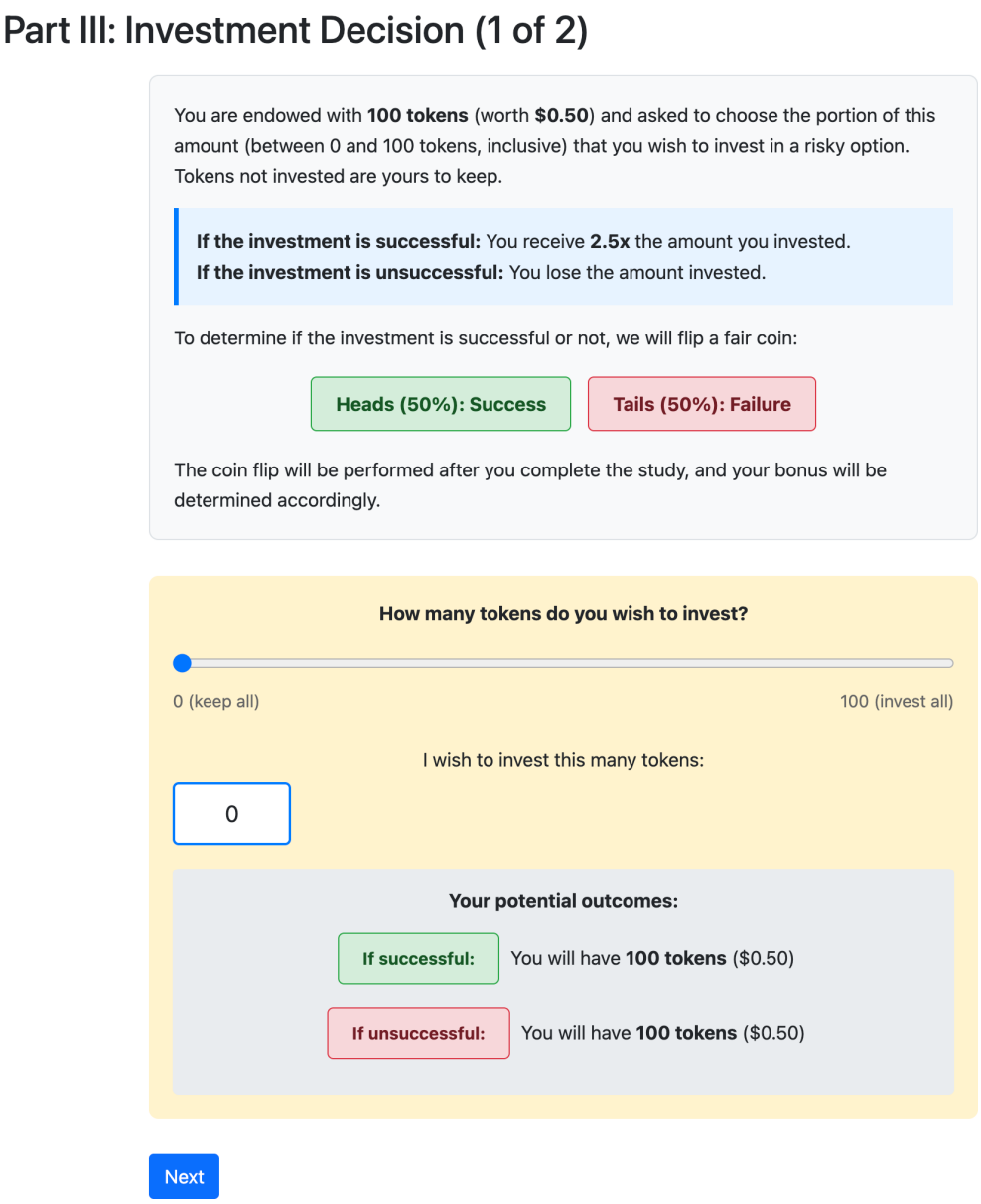

FIGURE 22: Investment Decision 1 of 2

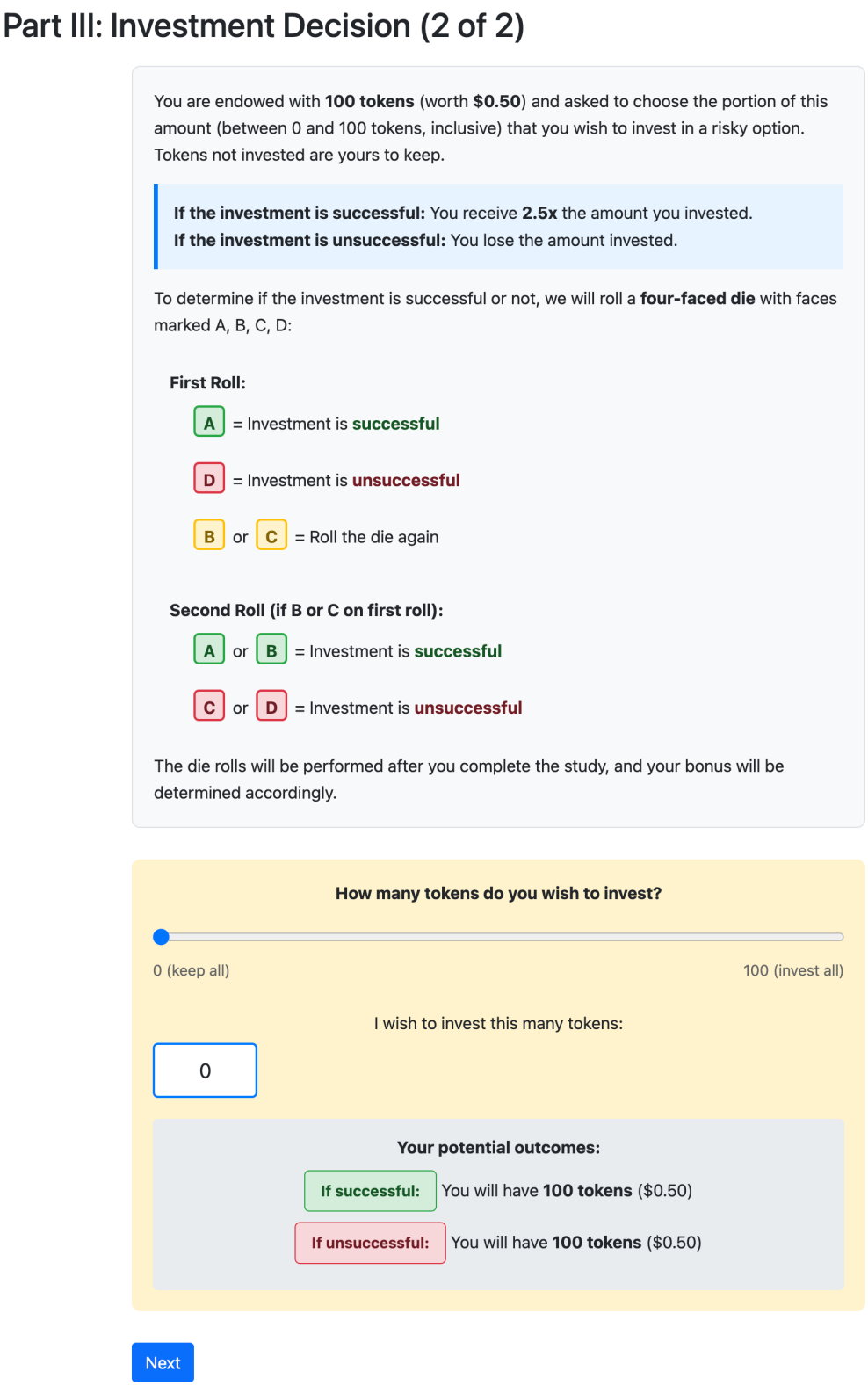

FIGURE 23: Investment Decision 2 of 2

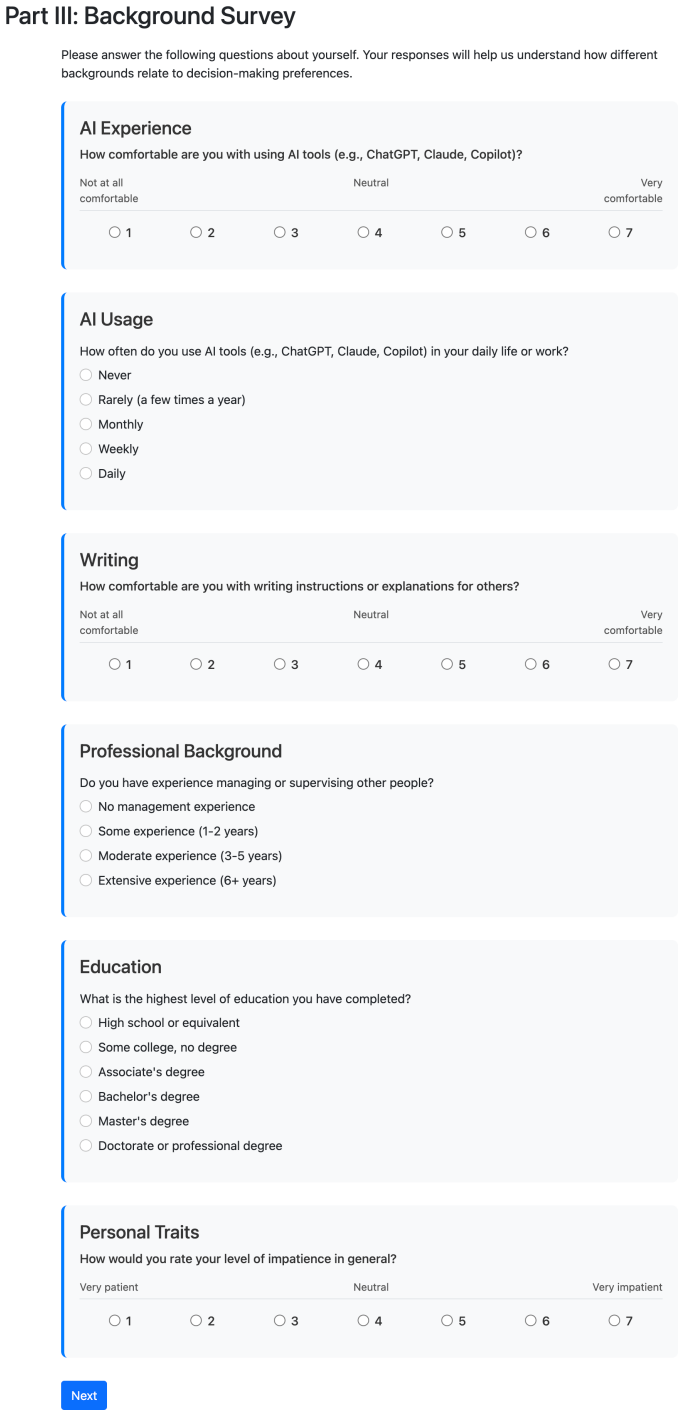

FIGURE 24: Background Survey

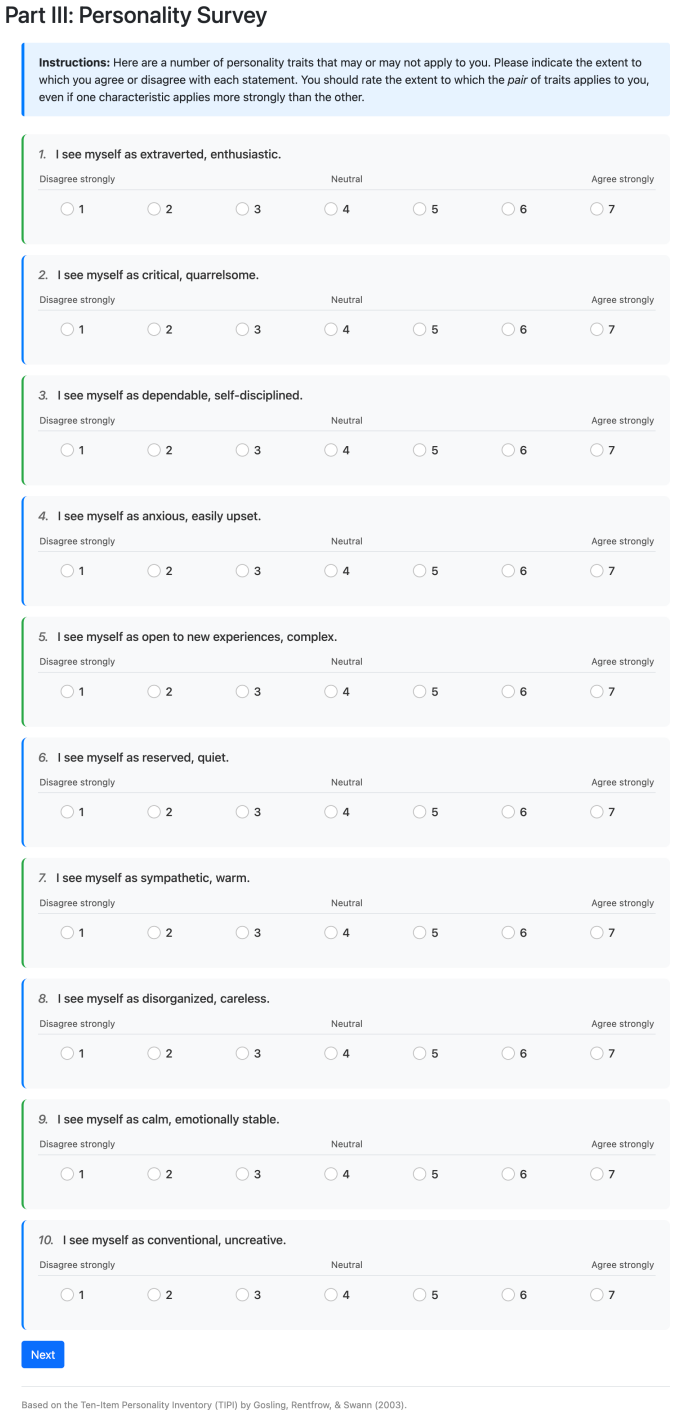

FIGURE 25: Personality Survey

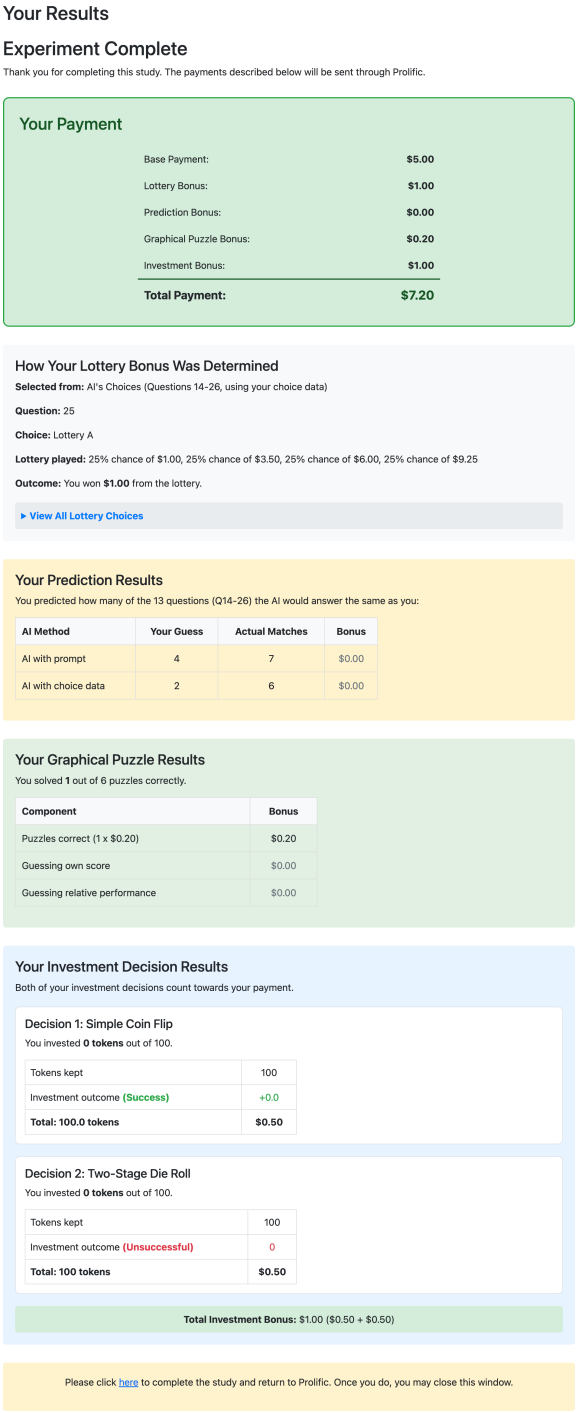

FIGURE 26: Payment Summary