

# Are Women in Science Less Ambitious than Men? Experimental Evidence on the Role of Gender and STEM in Promotion Applications

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## Are Women in Science Less Ambitious than Men? Experimental Evidence on the Role of Gender and STEM in Promotion Applications \*

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#### Abstract

The gender wage gap is to a significant extent driven by gender-based job segregation. One of the potential culprits can be found in supply-side behavioral differences in promotion applications. In this study, using a controlled lab experiment, we disentangle the roles of gender, field of study, and task difficulty in promotion application decisions. Our study provides three crucial findings. First, gender differences in self-limiting promotion application behavior are only present in STEM field students when exposed to a male task. Specifically, when an easier alternative is available, women are less willing to apply for promotions concerning harder tasks than men. Second, there exists no significant difference between men's and women's willingness to apply for promotion concerning female jobs in STEM or non-STEM fields. Third, we find that previously reported gender differences in confidence are present only between STEM field students. The results also suggest that self-sorting into positions does not cause a decrease in overall welfare, however, it causes fewer promotions for women in STEM. We finally propose an easy-to-implement policy intervention to close the gender gap in STEM students when applying for a promotion.

JEL-codes: D91, J16, J62, C91

*Keywords:* promotion application, self-limiting behavior, hierarchical segregation, STEM, male task, experiment

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## 1 Introduction

Despite progress, the underrepresentation of women in the upper echelons of work remains a prominent issue driving the gender pay gap (Encinas-Martín and Cherian, 2023). This underrepresentation is even more pronounced in science, technology, engineering and mathematics (STEM) fields, which further fuels the gap given the lucrative nature of STEM occupations. The education gap is no longer the primary culprit of the gender pay gap (Blau and Kahn, 2017). Indeed, even with similar levels of numeracy skills, women earn less than their male counterparts (Encinas-Martín and Cherian, 2023). Instead, the gender wage gap is partially explained by occupational segregation (Blau and Kahn, 2017). Occupational segregation manifests itself in two ways, between and within establishments, and it has been shown that especially for college graduates what matters the most is the within-establishment segregation (Barth et al., 2021). We also know that within-establishment segregation is mostly due to promotional differences, which is also called hierarchical segregation in the literature (Bettio et al., 2009). Employers' promotion decisions and employees' application behavior are two sides of the coin leading to this type of segregation. Employer discrimination against women in promotion decisions is a previously documented phenomenon (Blau and DeVaro, 2007; Bohnet et al., 2016; Sarsons, 2017), but it is not the only factor influencing promotion outcomes (Bosquet et al., 2019). Employee behavior, namely the willingness to climb the ladder in work hierarchies, should also be closely examined to develop a better understanding of the female underrepresentation in upper management. In this paper, we scrutinize promotion-related job applications in a controlled environment using two laboratory experiments and focusing on self-limiting employee behavior in this application process that prevents women from reaching advantaged positions in their careers.

Earlier evidence of gender differences in the labor market shows that the career pipeline of women leaks out even before the employer's decision in the hiring process (Clark Blickenstaff, 2005), meaning that women and men themselves may choose different career paths even before an employer makes a decision about their promotion. Promotion decisions are generally considered to be made by the employer, but it has been empirically shown in the French academic setting that application differences account for most of the promotion gap between men and women (Bosquet et al., 2019). Using a series of experiments, Brands and Fernandez-Mateo (2017) highlight the effect of previous negative experiences in the underrepresentation of women in higher management. Additionally, in a stylized online experiment, Exley and Kessler (2022) show that an employee's self-presentation is also a determining factor in how employers make promotion decisions. They demonstrate that a self-presentation gender gap appears in the male-stereotyped domain during the application process. It is important to underline that employees are not automatically promoted just because they deserve it. They are expected to show their deservingness to be promoted or to directly apply for a promotion. Employees must therefore actively participate in the process that will lead them to higher positions in their careers.

In this study, we investigate the self-limiting behavior of individuals in promotion applications by means of two stylized laboratory experiments. We define self-limiting behavior as an individual's personal action that would hinder the individual from reaching their full potential

(Dickerson and Taylor, 2000). Hence, we focus exclusively on employee behavior. To do so, we exploit the potential of lab experiments in three ways. Typical actors of a real-life promotion decision are an employer and the employee. First, to eliminate the previously detected impact of employer expectations on employee behavior (Barbulescu and Bidwell, 2013) and gender differences in self-presentation to the employer (Exley and Kessler, 2022), we have removed the employer component. Second, we have also made job requirements irrelevant by removing them altogether, as Mohr (2014); Coffman et al. (2022); Abraham et al. (2023) demonstrated gender differences in assessing the requirements to apply for a position. Finally, the laboratory setting also helps us separate preferences from self-limiting behavior. An individual's preference not to take on the responsibility of a task is not a self-limiting behavior. Hence, we create a controlled environment in which the self-limiting behavior of men and women in relation to promotion applications is isolated. In our setup, there is no authority or rule to determine deservingness. We start thereby to systematically disentangle reasons behind self-limiting behavior in promotion applications: true performance, past beliefs about absolute and relative performance, future expectations about absolute and relative performance, task difficulty, gender congruency of the task, field congruency of the task and preferences to gain a better understanding of the employee perspective on the promotion gap.

Our study introduces a novel promotion application design, where participants are paired and asked to express their individual willingness to apply for a promotion. The willingness to promote is reported following a real effort task. Only one of the two employees in the group is promoted to the "advanced job" based purely on their relative willingness to apply for promotion. The other employee takes the "novice job". Each of the advanced and the novice jobs provides an individual bonus, the former being greater than the latter. The promoted and unpromoted individuals stay in the same group and work separately in two new real-effort tasks for an additional joint group payoff which is shared equally at the end of the experiment. Both players' efforts contribute to their final earnings. However, the promoted participant's contribution to the joint group account is higher, that is, this promotion involves a shared responsibility, but the promoted employee's output is multiplied by a higher factor. Hence, promoting the better performer is the best strategy for both parties in the group. After the promotion application is completed, both participants perform the tasks.

In our design, there are a total of three promotion application decisions. Across the three decisions, we systematically assign tasks with different difficulty levels to advanced and novice jobs. In the first decision, both jobs have the same low task difficulty level. In the second decision, the task related to the "advanced job" has a higher difficulty level, which makes this particular decision closer to reality. The final decision includes high-difficulty tasks for both jobs. This design allows us to collect three observations for each participant. Thus, we can evaluate self-limiting behavior by exploiting the panel data using a standard difference-in-differences analysis (Card and Krueger, 1994). The second decision, as mentioned above, is the most realistic. But, considering only this decision might raise the question of whether any gender difference in willingness to promote is simply due to a preference for not taking responsibility for the hard task, or whether it is a self-limiting behavior that prevents the employee from applying. To

address this, the third option is designed to remove the responsibility effect of the hard task on willingness to promote. If the willingness to promote decreases due to the hard task, then it should also decrease in the third decision. Therefore, we can conduct a difference-in-differences analysis on men and women using the change in task difficulty as the treatment to remove the effect of task difficulty preferences on promotion applications. In addition, the difference between the first and third decisions is analyzed as a difference in willingness to promote when the state of the world consists only of hard tasks.

The study accommodates two separate experiments, BASELINE and HIGHDIFFICULTY. In the first experiment, BASELINE, we examine the gender congruency-related differences in behavior and preferences. Gender-incongruency of a task has been previously found to exacerbate gender differences in willingness to take responsibility in group decisions (Coffman, 2014) and self-promotion (Exley and Kessler, 2022). In this experiment, each participant is presented with our experimental design twice in two separate parts, one including a stereotypically masculine and the other a stereotypically feminine task. The order of parts is randomized. Going further, in this experiment we also introduce another congruency level: *field-congruence*. By *field-congruence*, we consider study background and we additionally hypothesize that the gender-incongruency driven differences might shrink when the gender-incongruent task is fieldcongruent. Therefore, our first experiment distinguishes participants based on their gender as well as their study background, STEM and non-STEM. In the second follow-up experiment, HIGHDIFFICULTY, we increase the difficulty of the real effort task that they perform before making their promotion choices, therefore implicitly decreasing the ambiguity concerning task difficulty and we concentrate only on the male task and only on STEM students, which was the only combination where we found a gender gap in BASELINE. In both experiments, absolute and relative performance-related beliefs are elicited to measure confidence through overestimation and overstatement defined by Moore and Healy (2008). Participants are also asked to state their absolute and relative performance expectations in an easy and a hard task that they would solve in the future. The belief elicitation is not incentivized following Charness et al. (2021) to not cause hedging due to the same experimental design being presented twice with two different tasks in BASELINE. The belief elicitation procedure is kept the same in HIGHDIFFICULTY.

When inspected from Bosquet et al. (2019)'s perspective, each promotion can be regarded as a job application. Focusing on gender differences detected in job application behavior research, we identify three major findings that play a role in the formation of these differences: gender congruency of the domain, competition preferences, and ambiguity. Barbulescu and Bidwell (2013) examine differences in job search and job preferences between men and women using survey and archival data. Their research finds that women are less likely to apply for stereotypically masculine jobs which is partly driven by self-identification and partly by lower expectations regarding a job offer in these domains. Well-crafted laboratory experiments have also shown that gender differences might also depend on the perceived masculinity or the femininity of the task (Coffman, 2014; Dreber et al., 2014; Exley and Kessler, 2022). Exley and Kessler (2022) additionally suggest that there is a self-promotion gap between men and women only in the male domain. Therefore, gender congruency of the domain appears to be an important determining factor behind self selection and we choose to incorporate both male and female domains in our experiment.

Furthermore, experimental evidence from studies conducted by Buser et al. (2014), Flory et al. (2015), and Samek (2019) have identified competitiveness as a crucial factor influencing the career choices of men and women. Women exhibiting a lower preference for competition tend to opt for less prestigious academic tracks, and less competitive work environments, and shy away from competitive compensation schemes. Negative past experiences have also been found to asymmetrically influence women's decisions regarding job applications (Brands and Fernandez-Mateo, 2017), increasing the likelihood that women have less willingness to compete for better positions. Hence, we seek to minimize competition by using piece rates and no limitations for promotion other than self-reported willingness.

On the other hand, ambiguity appears to be another determinant of gender differences in application decisions. Experiments have highlighted the importance of information about the application process. For example, Gee (2019) demonstrated the significant impact of providing information about the number of applicants, which increases the likelihood of women completing their applications. In addition, ambiguity within job requirements is also found to have an effect. A field experiment conducted by Abraham et al. (2023) found that removing redundant job descriptions changed application behavior and that women were particularly sensitive to meeting job requirements, confirming earlier survey evidence (Mohr, 2014). In addition, an online experiment conducted by Coffman et al. (2022) supports the claim that ambiguous job requirements disproportionately affect women, causing them to refrain from applying. Therefore, we have removed any pre-imposed barrier to applying for a promotion in our setup, but the ambiguity related to the difficulty level of the hard task, since our participants are presented only with the easy task before their promotion applications.

The BASELINE has three major findings. First, we find that promotion application differences only exist between STEM studying men and women. It is crucial here to underline again that in our study, the promotion application is free of application requirements. Hence, deciding not to apply can only be driven by preferences and beliefs about absolute or relative performance. Our study shows that STEM women have a lower willingness to apply for harder tasks in the presence of an easier alternative. The difference can be explained neither through the belief nor through the preference channel. Second, the promotion application difference becomes insignificant when the female task is used instead. The difference between non-STEM men and women in willingness to apply is on the other hand insignificant for both male and female tasks. Finally, we show that the study background matters and gender differences in absolute and relative confidence in both male and female tasks are mainly driven by STEM-studying males. We also provide evidence for the promotion opportunity loss for women due to self-sorting in jobs.

In our second experiment, HIGHDIFFICULTY, we use our findings from the BASELINE and the research on gender differences in ambiguity aversion regarding gain domain (Eckel and Grossman, 2008; Flory et al., 2015). Moreover, the impact of ambiguity decrease on closing the gender gap has been also demonstrated by Abraham et al. (2023) and Coffman et al. (2022) in the job descriptions and requirements domain. The BASELINE group demonstrates that statistically significant gender differences in promotion application behavior occur only when a harder task concerns the promoted employee alongside an easier task concerning the nonpromoted employee, and only in the male domain. This gender difference is present solely among STEM students. Consequently, HIGHDIFFICULTY targets only STEM students applying for promotions in the male domain. It is important to note that in BASELINE, the first task performed before the promotion decision is the easy task. By contrast, in HIGHDIFFICULTY, participants experience the hard task in the first part of the experiment. This approach reduces ambiguity related to the difficulty level of the hard task, which determines payoffs in relation to promotion decisions. Thus, HIGHDIFFICULTY clarifies for participants the difficulty of the task they must perform when they promote and take responsibility for the group. This intervention successfully eliminates the gender gap in promotion applications, promoting equal labor supply among both men and women.

The rest of this paper is structured as follows: Section 2 explains the detailed designs of our experiment. Section 3 describes our pre-registered hypotheses. Section 4 presents sample characteristics and detailed results. Finally, Section 5 concludes.

## 2 Experimental Design

The main goal of our study is to disentangle the self-limiting behavior in promotion applications through beliefs and preferences, to check whether this behavior is task or field-of-study dependent, and finally to close this gap by reducing ambiguity related to task content. Our study consists of two experiments, BASELINE and HIGHDIFFICULTY. In BASELINE, we scrutinize gender differences driven by preferences and beliefs in the promotion application behavior with STEM and non-STEM students using both male and female tasks. This experiment is a within-subject design in terms of both tasks being presented to all participants, but inherently a between-subject in terms of study background. After observing the relevance of the field of study on gender differences in BASELINE, we derived the second experiment, HIGHDIFFICULTY, which is a simplified version of our first experiment. In HIGHDIFFICULTY, we propose a policy intervention to close the gap for STEM students in a male task, by reducing the ambiguity concerning the job content, that is the difficulty level. Both of our experiments use the same promotion application design developed for this study.

## 2.1 Experiment 1: Baseline

Our promotion application design adopted the willingness to contribute concept from Coffman (2014) and was inspired by the design of the laboratory experiment in the online appendix of Coffman et al. (2022). Coffman (2014) uses pairs and asks whether one participant is willing to take responsibility for answering a given question on behalf of the pair. In her experiment, participants decide their willingness to take on this responsibility on a scale of 1 to 4, with 1 being the highest. When the individual responses of the pair are compared, the responsibility for

answering the question is given to the person with the highest willingness. Similarly, our design incorporated this mechanism for truthful reporting of willingness to apply for a promotion.

Furthermore, the lab experiment in the Coffman et al. (2022) online appendix attempts to generate a job application setup where participants are asked to choose between a novice and an expert job. The task content of each job was exactly the same, but the jobs differed in terms of pay. The reason for this design choice of having the same task for both jobs has been reported as eliminating the effect of preferences. Therefore, the authors have argued that they were able to focus on beliefs.

Our first experiment, BASELINE, consisted of two main parts that were identical except that they used different real effort tasks based on two comparable modules of the Paper-based TestAS<sup>1</sup>, a test used for the university admissions of international students to German universities. The first part comprised questions from the Solving Quantitative Problems module of TestAS as the main effort task. The other part of the experiment used the Recognizing Linguistic Structures module of the same test. These two modules were chosen to address the gender congruency and their effects on behavior. The modules were also comparable regarding the necessary time per question. Using Paper-based TestAS also allowed us to control for task difficulty. The questions of TestAS were categorized into three pre-determined difficulty levels easy, medium, and hard, which gave the flexibility to credibly alter the degree of difficulty. The order of these two parts was randomized.

In each part of BASELINE, there were two sections. Following an introduction, subjects proceeded to the first section of that part. The first section consisted of six questions from the relevant module with two difficulty levels, i.e. three low-difficulty and three medium-difficulty questions. Participants were given ten minutes to answer these questions. For each correctly solved question in this section, participants earned 1 Euro as a reward. Once participants had completed the questions, they were then asked to report their absolute and relative performance expectations regarding their performance on these questions. In addition to their expectations about the past, they were also asked to state their future expectations. These future expectations was incentivized following the findings of Charness et al. (2021). This approach was taken to prevent any potential performance manipulation through hedging in the second block, as we adopted a within-subject design.

In the second section of each part, participants were presented with the task of making three independent stylized promotion application decisions. The section began with an explanation of the application procedure, followed by a comprehension question to ensure understanding. A promotion application decision entailed expressing the willingness to take responsibility for an advanced job within a two-person group. Prior to making the decisions, participants were informed that they would be matched with a random person from the lab and no personal information about this individual would be disclosed. In this section of the experiment, the pair had a chance to generate additional bonuses together by correctly answering new questions in the

 $<sup>^{1}</sup>$ Detailed information related to Paper-based TestAS can be found in the following file: https://www.testas.de/en/modellaufgabenpapier\_en.htm

same category they were previously tested on, i.e. Solving Quantitative Problems or Recognizing Linguistic Structures (Please refer to Figure 1 for the structure of each experimental session). After the promotion decisions were made, participants completed the new questions that were the subject of their promotion. No performance feedback was given in any of the sections.

The experiment then continued with the second part. This part was analogous to the first, the only difference being the task type. The task type to start with was randomized due to the within-subject design feature of the experiment. The experiment ended with an exit questionnaire where participants were asked to answer demographic questions along with a single-item risk preference question used in the German Socio-Economic Panel (SOEP) survey (Goebel et al., 2019), single-item competition preferences question by Fallucchi et al. (2020), Big 5 personality traits, continuous gender identity measure by Brenøe et al. (2022), family education background, migration background, past exposure to TestAS, views on performance tasks, and reliability. Participants were also asked to report the stereotype associated with the task type.

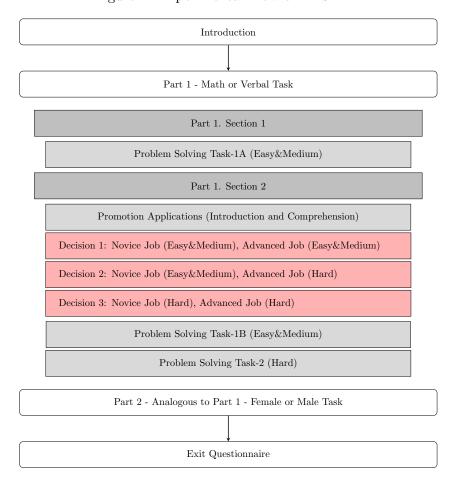


Figure 1: Experimental Flow of BASELINE

Decisions on promotion applications were designed so that there were two different roles in the group. We called these the advanced job and the novice job. Participants were asked to indicate their willingness to apply for the advanced job for their group. In each of the three decisions, only one member of the group was hired for the advanced job, based on their reported willingness to apply. The other member was then assigned to the novice job. The advanced job

$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Below	v Median	Above	e Median
Expected Correct Answers $\downarrow$	Novice Job	Advanced Job	Novice Job	Advanced Job
0	7.00	5.25	2.00	4.00
1	8.50	7.50	3.50	6.25
2	10.00	9.75	5.00	8.50
3	11.50	12.00	6.50	10.75
4	12.00	14.00	8.00	13.00

Table 1: Expected Earnings Based on Expected Rank and Expected Number of Correct Answers

*Notes:* The figures exclude show-up fees and are in EUR.

offered a higher earning potential with a 4 Euros individual promotion bonus. It contributed 4 Euros per correct answer to the group earnings which was shared equally between the promoted and the nonpromoted participants of the group. On the other hand, the novice job contributed 1 Euro per correct answer to the group earnings and it offered an individual novice bonus of 2 Euros. Table 1 reports the expected earnings based on individuals' absolute and relative performance expectations in this mechanism. It reveals that for a risk-neutral agent stating the highest willingness to apply for the advanced job is the dominant strategy if the person thinks that their performance is above the median. If the performance expectations are below the median but the median is three correct answers or above, stating the highest willingness to apply should also be preferred. Thereby, the incentive scheme of the stylized promotion applications motivated participants towards selecting the advanced job as long as they thought they were good enough.

Participants viewed one decision at a time on the screen and chose a number between 1 and 4 to represent their willingness to take the advanced job for their group. A rating of 1 indicated the highest willingness, while a rating of 4 indicated the lowest willingness. If both chose the same number, the computer flipped a coin to determine who got the advanced job within the group. Framing the reporting as a 1 to 4 willingness representation gave us the chance to collect a richer measure with higher variance. This framing was also important to reflect real-life promotion applications since willingness to be promoted is not always a binary decision but is actually about showing how willing one is to get promoted.

The three application decisions were designed to separate the effect of their future performance belief in similar tasks, future performance belief in harder tasks, and their preference for signing up for a harder task in the presence of an easy alternative. Therefore, the difficulty level of the jobs that were subject to the advanced job and the novice job was systematically altered. In the first decision (hereafter *Easy-Easy*), both the novice and advanced jobs concerned two low, and two medium-difficulty (four in total) questions, meaning the difficulty level was the same as their first section but it had new questions. The third decision (hereafter *Hard-Hard*) had also the same task for both jobs, but it involved solving four high-difficulty questions. Participants were informed that the difficulty level of the first section was easy and medium. So they had a clear idea of what to expect in terms of difficulty when presented with a low and medium-difficulty task. However, for the hard questions, they were simply told that the questions were from the same domain but were more difficult. This made the hard-difficulty task relatively unfamiliar and ambiguous and required participants to make decisions based on the expectations of their performance in a task with higher difficulty. The second decision (hereafter *Easy-Hard*) presented a choice between two low and two medium-difficulty (four in total) questions for the novice job and four high-difficulty questions for the advanced job. Therefore, the second decision required participants to weigh their preference for taking on a more challenging task against the option of an easy but less important position in the group. In the end, one of the three decisions was randomly picked and the participant's earnings in the second section were calculated based on the job allocation and group performance subject to this decision.

Following application decisions, subjects performed both easy-medium and hard tasks without learning the results of their applications. They had six minutes to solve four easy-medium questions and eight to solve four hard questions. The outcomes of their performance on these tasks, combined with the randomly chosen application decision, determined their payoffs. This design feature allowed us to generate true performance for both the easy-medium task and the hard task since participants did not know which one of the decisions was picked or whether they were assigned the advanced job responsibility. After each task, we also elicited their absolute and relative performance beliefs.

It is important to remember that the within-subject design of our experiment allowed us to create panel data for each participant including all of their decisions and performances concerning both the male and the female tasks. Therefore, thanks to this design, we had the chance to truly follow each person and scrutinize the changes in their decisions and beliefs when the task type and difficulty changed.

In BASELINE, we recruited 303 participants from two active social science labs in Berlin. The experiment was run at the WZB-TU lab of the Technical University of Berlin and the PLEX lab of the University of Potsdam.<sup>2</sup> The BASELINE experiment took an average of 75 minutes. It was run between November 16, 2022, and March 15, 2023, in both labs. The average earnings before the show-up fee are 10.08 Euros for the TU lab and 9.74 Euros for the Potsdam lab. The earnings difference between labs is not significant (Wilcoxon rank-sum test, z = -1.048, p = 0.2948). The show-up fees were calculated based on lab-specific regulations, the TU lab show-up fee being 6 Euros and the Potsdam lab 9 Euros.

## 2.2 Experiment 2: HighDifficulty

In our second experiment, HIGHDIFFICULTY, we focused exclusively on STEM students and used only the math task to examine the policy intervention. The reason we focus on this group is due to the gender gap found in the first experiment, which will be discussed in more detail later in Section 4. Briefly, in our first experiment, we find that STEM women tend to have a lower willingness to apply for a promotion when the novice-level job is an easy task and the advanced job is a hard task, compared to STEM men. This finding tells us that STEM women prefer easier jobs when they are available.

<sup>&</sup>lt;sup>2</sup>The PLEX lab of the University of Potsdam is later added to the experiment due to the lack of non-STEM students in the WZB-TU lab.

We recruited our sample (N = 158) only from the WZB-TU Laboratory of the Technical University of Berlin since the study only included a comparison of STEM students. HIGHDIFFI-CULTY consisted of only one part and two sections since we wanted to examine gender differences in the math task following our BASELINE results. In this experiment, we presented the new participants with hard-difficulty questions instead of the low and medium-difficulty questions used in the first section of BASELINE. The purpose of this change was to minimize ambiguity about the level of difficulty that would be later influential in the promotion decisions that involved hard difficulty tasks. Due to the increased difficulty, the time allotted for the first section of HIGHDIFFICULTY was extended to twelve minutes instead of ten. The rest of the experiment remained exactly the same.

## 3 Hypotheses

The study aims to test five sets of hypotheses through two separate lab experiments. The first four of these are addressed in our first experiment, BASELINE. The fifth is addressed in HIGHDIFFICULTY.<sup>3</sup>

#### 3.1 Experiment 1: Baseline

Our first set of hypotheses focuses on beliefs. We begin by focusing on the influence of educational background on beliefs about past performance. We propose that the field of study plays a crucial role in shaping both absolute and relative performance expectations. In our first experiment, we employed two different tasks, math and verbal, based on their gender congruency, and we recruited both STEM and non-STEM subjects. Thus, this design allows us to examine the effect of field congruence on performance expectations. By systematically manipulating these factors, we aim to examine how beliefs are influenced and potentially altered by the congruence between the task domain and the participant's field of study. We hypothesize that the field of study serves as a relevant factor in the formation of performance-related beliefs.

**Hypothesis 1.A** (Beliefs). The beliefs about past performance in different tasks are driven by congruency with the field of study.

In Subhypothesis 1.A, we propose that task congruence with the field of study might predict performance-related beliefs. Early studies focusing on gender differences in confidence find men to be more confident Croson and Gneezy (2009). Elaborating further on this finding, later studies have found that men are generally more confident specifically in male tasks, meaning tasks in which men are expected to perform better than women (Coffman, 2014; Dreber et al., 2014; Coffman et al., 2022; Exley and Kessler, 2022). A recent finding scrutinizes gender differences by taking the study track into account and suggests that the gender gap in reported self-assessment exists only for students in the science track in math, science, and social science (Saygin and

<sup>&</sup>lt;sup>3</sup>Our hypotheses are all preregistered. They are regrouped for better readability without changing the content. The hypothesis for the second experiment was preregistered after the first experiment was run, in an additional document under the same repository.

Atwater, 2021). They found no gender differences in self-assessment in non-science fields. Saygin and Atwater (2021) also show that women report better self-assessment in literature, a very female domain, regardless of their field of study. It is important to emphasize that reported selfassessment, which is a rather subjective measure, is not necessarily the same as performance expectations. Therefore, in Subhypothesis 1.B, we start from the more general finding that males are more confident than females (Croson and Gneezy, 2009) and test whether males have higher average absolute and relative levels of confidence compared to females in the same field of study.

**Hypothesis 1.B** (Beliefs). Given the field of study, men, on average, are expected to be more confident than women in all past and future performance expectations.

In our study, we additionally speak to the concept of imposter syndrome, initially defined as "an internal experience of intellectual phoniness" by Clance and Imes (1978). It is important to note that both the methodology for detecting imposter syndrome and the phenomenon itself have not been extensively studied empirically yet (Whitman and Shanine, 2012). Therefore, in this study, we concentrate on the differences between past and future performance expectations. We examine the phenomenon by analyzing the disparity between future and past performance expectations in the initially performed real effort task in the first session of each part. Thereby, we define imposter syndrome as beliefs about future performance in a similar task being worse than beliefs about past performance. Building on previous evidence suggesting imposter syndrome being more prevalent in women (Clance and Imes, 1978; Chrousos and Mentis, 2020), we propose in Subhypothesis 1.C that women would be suffering from imposter syndrome more than men. Moreover, in the successful identification of the phenomenon, we expect the level of the imposter syndrome to be lower when the performed task is congruent with the field of study.

**Hypothesis 1.C** (Beliefs). Imposter syndrome is, on average, more prominent in women. It can be partially explained by task congruency with the field of study.

In the second hypothesis set, we focus on understanding the differences between men and women in terms of their willingness to apply for promotions in gender or field-congruent domains. We build this set of hypotheses by combining the literature about job applications in general with the Bosquet et al. (2019) perspective regarding promotion applications as job applications. We propose three hypotheses related to the differences in willingness to apply for promotions. First, drawing from the findings of studies conducted by Coffman et al. (2022) and Exley and Kessler (2022), we hypothesize that women, overall, exhibit a lower willingness to apply compared to men in the male domain. Second, we do not expect to find gender differences in the female domain.

**Hypothesis 2.A** (Willingness to Apply for Promotion). Women, compared to men, have a lower willingness to apply for promotion for the male task.

**Hypothesis 2.B** (Willingness to Apply for Promotion). There is no gender difference in willingness to apply for promotion for the female task. Next, we examine the role of field congruency in driving these differences. We expect that the disparity in willingness to apply is particularly pronounced among women in non-field congruent domains, specifically non-STEM fields. We assume that self-reliance and individual preferences may play a role in shaping these differences, as women in non-congruent fields might feel even less comfortable than women in STEM fields when it comes to male-dominated domains.

**Hypothesis 2.C** (Willingness to Apply for Promotion). The difference in willingness to apply for promotion is driven by women in non-STEM fields.

We propose two hypotheses related to task difficulty preferences in the context of gender and field congruency. Based on the previous literature on difficulty preferences (Gneezy et al., 2003), Hypothesis 3.A suggests that women, compared to men, have a preference for easier tasks in the male task. This hypothesis posits that women tend to lean towards tasks that are perceived as less challenging or demanding.

**Hypothesis 3.A** (Task Difficulty). Women, compared to men, prefer easier tasks in the maletype domain.

Hypothesis 3.B states that the expected difference in task difficulty preferences between men and women, as outlined in Hypothesis 3.A, decreases when the task is congruent with the field of study. In other words, when the task aligns with the individual's field of study, the genderbased preference for easier tasks becomes less pronounced. This hypothesis implies that field congruency has a moderating effect on the task difficulty preferences of men and women. It is motivated by the general positive selection expectations about women who are already in the STEM field (Saygin and Atwater, 2021).

**Hypothesis 3.B** (Task Difficulty). The gender difference in preferences for an easier task in the male domain is weaker when the task is congruent with the field, i.e. among STEM students.

Coffman (2014) calculates financial losses due to women who are not willing to contribute their ideas. In this study, despite their correct answers, women report a lower willingness to contribute their ideas to their group, resulting in losses to the group account. Therefore, we hypothesize that the inefficient sorting of individuals into jobs due to the gender difference in willingness to apply for a promotion results in a significant loss in total earnings. This hypothesis suggests that when individuals are not appropriately matched to promotions based on their deservingness, it leads to suboptimal outcomes in terms of total earnings.

**Hypothesis 4.** The inefficient sorting to jobs causes a significant loss in total earnings.

#### 3.2 Experiment 2: HighDifficulty

In line with the literature documenting gender differences in ambiguity aversion (Eckel and Grossman, 2008; Flory et al., 2015), we propose that women's higher preference for easier tasks might be due to ambiguity concerning task difficulty. Therefore, we hypothesize that presenting participants in the STEM field with a hard male task diminishes the gender difference detected

in BASELINE. This hypothesis suggests that reducing ambiguity can play a crucial role in mitigating gender differences in willingness to apply for promotion within the STEM domain.

**Hypothesis 5.** In the STEM field, presenting participants with a hard task first reduces the gender difference in the preference for easier tasks when they are available.

## 4 Results

#### 4.1 Data and Summary Statistics

Our first experiment, BASELINE, consists of 303 and our second experiment, HIGHDIFFICULTY, of 158 participants. The mean age of the pooled data is 25 with a median of 24. The entire sample is 62.5% German. 10.2% of the total sample has been exposed to TestAS before, and finally, the median of our sample is currently enrolled in a bachelor's program. The subgroup sample sizes and descriptives can be found in table 2.

The performance difference in math questions between STEM men and STEM women in BASELINE is not statistically significant (Wilcoxon rank-sum test, z = 1.388, p = 0.1651). However, it is significant amongst non-STEM students at a 5% level (Wilcoxon rank-sum test, z = 2.103, p = 0.0355). Additionally, the math performance difference amongst STEM students in HIGHDIFFICULTY is also not significant (Wilcoxon rank-sum test, z = 0.231, p = 0.8170). The decrease in overall math performance for STEM students from BASELINE to HIGHDIFFICULTY can be attributed to the increased difficulty of the task in the first section (Wilcoxon rank-sum test, z = 12.568, p < 0.0000).

There are no significant performance differences in the verbal task of the first section between STEM men and women, and non-STEM men and women in BASELINE (Wilcoxon rank-sum test, z = -0.694, p = 0.4879 and z = -0.154, p = 0.8777, respectively).

When it comes to willingness to apply for a promotion, in the math task of BASELINE, we see that the only statistically significant difference appears in Decision 2 between STEM men and STEM women (Wilcoxon rank-sum test, z = -2.801, p = 0.0051). The difference between non-STEM men and non-STEM women is borderline significant at 10% level (Wilcoxon rank-sum test, z = -1.659, p = 0.0970). The difference between STEM men and STEM women becomes insignificant in the math task in HIGHDIFFICULTY (Wilcoxon rank-sum test, z = -0.574, p = 0.5657). We find no statistically significant difference when we compare men and women in any of the decisions in the verbal task.

#### 4.2 Beliefs

#### The Field of Study is a Significant Predictor of Past Performance Beliefs

As a first result, we delve into field congruency and its relationship to past performance beliefs. We run a regression pooling all STEM and non-STEM students together, controlling for field congruency, task type and their interaction, and actual performance. As seen in the first two columns of table 3, field congruency does seem to matter only for the math task when we pool

		BASE	ELINE		HIGHDI	FICULTY
	ST	EM	Non-S	STEM	ST	EM
	Male	Female	Male	Female	Male	Female
Sample Size	80	73	70	80	85	73
Age	25.2	24.5	25.1	25.2	25.3	25.0
	(5.1)	(4.4)	(7.6)	(7.2)	(4.8)	(4.4)
Median Age	24	24	23	23	24	24
German %	62.5%	49.3%	82.9%	72.5%	61.2%	46.6%
Previous TestAS Exposure %	6.2%	5.5%	11.4%	8.8%	15.3%	13.7%
Median Current Education	Bachelor	Bachelor	Bachelor	Bachelor	Bachelor	Bachelor
Performance (Math) - Sec 1	4.26	4.01	3.97	3.53	1.95	1.96
Out of 6 questions	(0.95)	(1.07)	(1.18)	(1.27)	(1.09)	(1.30)
Willingness to Apply (Math)						
Decision 1	1.33	1.51	1.86	1.91	1.79	1.88
Easy-Easy	(0.63)	(0.80)	(1.06)	(1.10)	(0.94)	(0.96)
Decision 2	2.00	2.51	2.60	2.85	2.58	2.66
Easy-Hard	(0.95)	(1.13)	(1.00)	(1.15)	(1.03)	(1.15)
Decision 3	1.65	1.79	2.16	2.25	2.01	2.02
Hard-Hard	(0.97)	(1.04)	(1.21)	(1.19)	(1.07)	(1.14)
Performance (Verbal) - Sec 1	3.43	3.55	3.10	3.19		
Out of 6 questions	(1.27)	(1.38)	(1.51)	(1.38)		
Willingness to Apply (Verbal)		. ,				
Decision 1	1.63	1.53	1.57	1.68		
Easy-Easy	(0.96)	(0.85)	(0.89)	(0.87)		
Decision 2	2.10	2.38	2.54	2.63		
Easy-Hard	(1.01)	(1.11)	(1.05)	(1.02)		
Decision 3	1.81	1.78	1.80	1.75		
Hard-Hard	(1.07)	(1.06)	(1.04)	(0.97)		

 Table 2: Summary Statistics

 $\it Notes:$  Unless stated otherwise, figures without parentheses represent means and those within parentheses are standard deviations.

the data. We see that confidence in the math task is lower overall, but higher when the students are in the STEM field. However, when we run separate regressions we see in columns three and four that the non-STEM students have significantly higher absolute and relative performance expectations in the verbal task than in the math task. Therefore, we conclude that the field of study is an important element in beliefs about past performance.

	Α	11	Non-S	TEM	STEM	
	(Absolute)	(Relative)	(Absolute)	(Relative)	(Absolute)	(Relative)
Field Congruent (FC)	-0.133	-0.280	$0.341^{*}$	$0.716^{***}$	0.0218	-0.184
	(0.143)	(0.161)	(0.138)	(0.148)	(0.133)	(0.131)
Math Task	$-0.471^{**}$	$-1.003^{***}$				
	(0.145)	(0.166)				
FC $\times$ Math Task	$0.637^{**}$	$1.123^{***}$				
	(0.226)	(0.271)				
Correct Answers	$0.258^{***}$	$0.233^{***}$	$0.263^{***}$	$0.221^{***}$	$0.274^{***}$	$0.269^{***}$
	(0.0374)	(0.0418)	(0.0555)	(0.0621)	(0.0540)	(0.0595)
Controls	YES	YES	YES	YES	YES	YES
Obs	606	606	300	300	306	306

Table 3: Pooled Performance Expectations in BASELINE

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* Random effects model with robust standard errors. The dependent variables are pooled past performance expectations about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

#### STEM Men are More Confident

In our BASELINE, we find that STEM males are significantly more confident than STEM females in the math task, the male domain. On the other hand, as shown in the third column of Table 4, non-STEM males expect significantly higher absolute performance than non-STEM females on the math task, which is consistent with previous findings. Again, replicating previous findings in the literature, we find no gender differences in the verbal task between STEM males and females or between non-STEM males and females. When we pool the sample over males and females without splitting it based on the field of study, we replicate the previous findings suggesting men are more confident in the male domain in terms of both absolute and relative performance and female tasks do not reveal any gender differences (See Appendix A.1.1 Table 13).

The interesting part of this exercise begins when we compare different groups. First, we compare STEM to non-STEM males and STEM to non-STEM females. In the comparison of STEM to non-STEM males, we see that STEM males are significantly more confident than their non-STEM counterparts in the female domain, the verbal task (see Appendix A.1.1 Table 14). They also report higher relative past performance expectations in the male domain. However, we do not find a difference between STEM and non-STEM females in any of the beliefs. Second, when we compare non-STEM males to STEM females, we also find no significant difference in either task (see Table 5). These results provide the first evidence of overconfidence among

	Math			Verbal				
	ST	EM	Non-S	TEM	ST	EM	Non-S	STEM
	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)
Male	0.481**	$0.497^{*}$	$0.499^{*}$	0.191	0.274	0.103	0.0976	0.230
	(0.175)	(0.211)	(0.220)	(0.235)	(0.187)	(0.209)	(0.219)	(0.258)
Performance	$0.201^{*}$	$0.312^{**}$	$0.238^{*}$	$0.227^{*}$	$0.166^{*}$	0.0912	$0.255^{**}$	$0.199^{*}$
	(0.0821)	(0.0980)	(0.0925)	(0.105)	(0.0754)	(0.0745)	(0.0773)	(0.0878)
Controls	YES	YES	YES	YES	YES	YES	YES	YES
Obs	153	153	150	150	153	153	150	150
$\mathbb{R}^2$	0.430	0.389	0.353	0.330	0.299	0.254	0.304	0.257

Table 4: Past Performance Expectations in BASELINE by Field of Study

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited past performance expectations about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

STEM men relative to women and their non-STEM male counterparts. Finally, if we compare STEM men to non-STEM women, we see how gender differences are inflated, how differences in math become highly significant at the 0.1% level and how relative performance expectations in verbal also become significant (see Appendix A.1.1 Table 15). We, therefore, conclude that the field of study is an essential piece of information to provide more conclusive analyses of gender differences in confidence. If we do not control for the field of study composition of our sample, we tend to overestimate or underestimate differences.

 Table 5: Past Performance Expectations in BASELINE Comparing Non-STEM Men to STEM

 Women

	Ma	ath	Verbal	
	(Abs)	(Rel)	(Abs)	(Rel)
Male	0.127	-0.110	0.00197	-0.0469
	(0.276)	(0.281)	(0.263)	(0.272)
Performance	$0.226^{**}$	$0.455^{***}$	0.123	0.0457
	(0.0843)	(0.0945)	(0.0801)	(0.0765)
Controls	YES	YES	YES	YES
Obs	143	143	143	143
$\mathbf{R}^2$	0.362	0.433	0.319	0.319

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited past performance expectations about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

As mentioned above, the performance-related beliefs were elicited for both past and future expectations. In addition, future expectations were also categorized as future expectations in a familiar (easy and medium difficulty in BASELINE) and in a harder task. Thus, we run the same regressions for the past performance expectations for both types of future expectations (See Appendix A.1.2 and A.1.3 for familiar and harder tasks respectively). The results show

that STEM men are also more confident about their future performance in a harder task. The slight overconfidence of non-STEM men compared to non-STEM women in absolute performance expectations in the math task disappears when we ask about their future expectations. The results for STEM men compared to non-STEM men remain the same for the relative performance expectations in both the math and verbal tasks. There is no difference between non-STEM men and STEM women in either task. Finally, the gender differences are again inflated when we compare STEM men to non-STEM women. We find the same results in the future expectations in a similar task (See Appendix A.1.2). Therefore, our study provides clear evidence of STEM men's overconfidence in all types of elicited beliefs, except in the female domain when compared to STEM women. Moreover, we find no evidence of imposter syndrome as we define it.

#### 4.3 Willingness to Apply for Promotion

#### STEM Men Have the Highest Willingness to Apply for Promotion in the Male Task

In our preregistered hypotheses, we have stated that women, compared to men, would have a lower willingness to apply in the male-type task and that the difference would be larger for the non-STEM women. On the other hand, we have not expected gender differences in willingness to apply in the female task following the findings of Exley and Kessler (2022).

Table 6 contains two specifications of the pooled regressions of willingness to apply. This analysis aims to understand the general tendency to apply for the advanced job, independent of task difficulty. Therefore, we pool all three observations per participant in each task type and run a random effects regression on the *willingness to apply* for a promotion variable.<sup>4</sup> Specification (1) of the table runs the regression for the math task and (2) for the verbal task. If we structure the regression using STEM men as a reference point, we see that all other groups have a significantly lower willingness to apply than STEM men when the task is male. The largest difference is again between STEM men and non-STEM women, as in the analysis of beliefs. If we compare non-STEM men with non-STEM women or non-STEM men with STEM women, we find no gender differences in the male task (see Appendix A.2.1 Table 22 Columns 1 and 3). In the female domain, no difference is found as expected, however, non-STEM males are found to be borderline significantly more willing to apply for promotion in the female domain at 10% level, which is a new finding that has not been extensively explored in the literature (see Appendix A.2.1 Table 22 Columns 2 and 4).

#### 4.4 Task Difficulty

Our design's feature of generating panel data, specifically six data points per participant, makes it possible to compare different promotion decisions made by the same participant. This allows us to use the standard difference-in-differences (DiD) approach of Card and Krueger (1994) for inferring causality in experimental gender studies.

 $<sup>^{4}</sup>$ It is important to recall at this point that the *willingness to apply* variable is not binary. It is reported on a scale of 1 to 4, with 1 being the highest. Therefore, in this table, a lower number means a higher willingness.

	Math	Verbal
	(1)	(2)
Non-STEM Males	$0.467^{***}$	0.00383
	(0.141)	(0.152)
STEM Females	$0.340^{**}$	0.126
	(0.131)	(0.141)
Non-STEM Females	$0.608^{***}$	0.131
	(0.137)	(0.135)
Correct Answers	-0.0800	-0.109***
	(0.0419)	(0.0316)
Controls	YES	YES
Observations	909	909

Table 6: Pooled Willingness to Apply

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* GLS random effects model with robust standard errors. The dependent variable is the willingness to apply pooling all three decisions per task type. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

#### Only STEM Women Prefer Easier Math Tasks When Available

We run our first DiD analysis between the second, *Easy-Hard*, and third, *Hard-Hard*, decisions of the application section. The advanced job in *Easy-Hard* has a hard task, while the novice job has a familiar easy-medium task. On the other hand, *Hard-Hard* has a hard task in both jobs. The interaction term between gender and the second decision (Female x *Easy-Hard*) in our random effects model shows that compared to men, women prefer easier tasks only in the male-type task and only among STEM students (see table 7). Surprisingly, the effect is smaller but still borderline significant for the female task when we compare STEM men and women. There is no gender difference between non-STEM students in any of the tasks.

	ST	EM	Non-STEM	
	Math	Verbal	Math	Verbal
Female	0.185	0.0653	0.152	0.141
	(0.178)	(0.185)	(0.196)	(0.177)
Easy-Hard	$0.350^{**}$	$0.288^{*}$	$0.443^{**}$	$0.743^{***}$
	(0.122)	(0.116)	(0.152)	(0.146)
Female x Easy-Hard	$0.362^{*}$	0.315	0.157	0.132
	(0.180)	(0.179)	(0.211)	(0.197)
Performance	-0.0890	$-0.133^{*}$	-0.0920	-0.0821
	(0.0768)	(0.0616)	(0.0599)	(0.0468)
Controls	YES	YES	YES	YES
Observations	306	306	300	300

Table 7: Difference in Differences between Easy-Hard and Hard-Hard Decisions

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* GLS random-effect model with robust standard errors. The dependent variable is the willingness to apply, pooling the second and third decisions. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

Now we briefly look at the hypothetical case where the DiD approach was not implemented. Table 8 shows the standard OLS regression on the *Easy-Hard* decision. It is noteworthy that the female coefficient is relatively inflated in this regression. Furthermore, solely examining these decisions would not address whether this gender difference is due to a general dislike of the hard task that ultimately affects the promotion application, or whether it is due to a preference for not taking responsibility for the hard task when there is an easier alternative to choose. The coefficient of *Female* in Table 7 shows that women do not in fact dislike a hard task, they take the responsibility of the group not significantly different from men when both jobs have the hard task in the *Hard-Hard* decision. However, in this case, women have a stronger preference than men for the easy and more familiar task when it is available.

	STEM		Non-S	STEM
	Math	Verbal	Math	Verbal
Female	$0.631^{**}$	$0.467^{*}$	0.195	0.198
	(0.189)	(0.198)	(0.208)	(0.197)
Performance	-0.0729	-0.0612	$-0.168^{*}$	-0.0154
	(0.0906)	(0.0752)	(0.0776)	(0.0578)
Controls	YES	YES	YES	YES
Observations	153	153	150	150

Table 8: Simple OLS on Easy-Hard Decision

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variable is the willingness to apply in the second decision, *Easy-Hard*. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

As a next DiD exercise, we compare the first, *Easy-Easy*, to the third, *Hard-Hard*, promotion application decision. In the first decision, both advanced and novice jobs have an easy-medium task that is similar to the first section of the relevant part. Table 9 shows that there is no gender difference in willingness to apply when the promotion application decision is between the same task options. Independent of their difficulty, we do not find gender differences when both the promotion and the novice tasks are the same, showing us that STEM women are less willing to apply for a promotion when the promotion task is hard, only if the easier and more familiar alternative is available.

#### Sample Composition Matters

These two DiD analyses tell us two key things. First, women are not necessarily different from men when it comes to taking responsibility for a difficult task. However, STEM women do when an easier alternative is available. Second, we see that non-STEM women, compared to their non-STEM male counterparts, are overall less willing to be promoted in their verbal female domain, which contradicts the self-stereotyping behavior revealed in the previous literature. Taken together, these findings lead us to reject our task difficulty-related hypotheses where the literature had motivated us to expect that women would prefer easier tasks and where we had expected that field congruency might have compensated for gender differences.

	ST	EM	Non-S	STEM
	Math	Verbal	Math	Verbal
Female	0.121	0.00141	0.212	0.176
	(0.179)	(0.185)	(0.195)	(0.176)
Easy-Easy	$-0.325^{**}$	$-0.188^{*}$	$-0.271^{*}$	$-0.229^{*}$
	(0.101)	(0.0922)	(0.122)	(0.0896)
Female x $Easy-Easy$	0.0373	-0.0591	-0.0661	0.154
	(0.137)	(0.158)	(0.173)	(0.129)
Performance	-0.0953	$-0.133^{*}$	-0.0182	$-0.150^{**}$
	(0.0696)	(0.0559)	(0.0675)	(0.0533)
Controls	YES	YES	YES	YES
Observations	306	306	300	300

Table 9: Difference in Differences between *Easy-Easy* and *Hard-Hard* Decisions

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* GLS random-effect model with robust standard errors. The dependent variable is the willingness to apply, pooling the first and third decisions. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

Notably, our results show that the gender differences are mainly in the areas where the participants are more proficient. So we do another analysis with STEM men and non-STEM men, repeating the same exercises from Table 7 and 9. We can see from this table in our Appendix A.2.2 that if we had not balanced our recruitment in terms of field of study and had inadvertently recruited an unbalanced sample of STEM men and non-STEM women, our results would have been more in line with the previous literature, with women overall being less willing to apply on the male task and with gender differences being found in the female domain, where women would not prefer the hard task.

## The Gender Gap between STEM Students in Preferring Easier Math Task is Partially Belief Driven

Based on our belief elicitation questions, we can explore both past performance-related beliefs and future performance-related beliefs. We now try to understand the reasons behind the differences in willingness to be promoted between STEM men and women in the math task. Table 10 shows that beliefs do matter for reported willingness to apply for promotion. Yet, beliefs about past performance explain less of the difference than beliefs about future performance. As mentioned above, our participants in BASELINE were asked to report their absolute and relative performance expectations on a future task that would be harder than the one they had originally performed. Thus, we see that future beliefs (both about absolute and relative performance) can explain women's preferences for easy task when it is available slightly better than beliefs about past performance. However, although the gap is no longer significant, it does not close. Thus, we now know that future performance expectations matter, but are not enough to close the gap. We have therefore hypothesized that this difference might be related to ambiguity, that is a lack of knowledge about the difficulty level of a future hard task in our study, and preregistered our second experiment, HIGHDIFFICULTY.

		S	ΓEM in Ma	ath	
Female	0.185	0.135	0.0912	-0.108	-0.133
	(0.178)	(0.186)	(0.185)	(0.186)	(0.187)
Easy-Hard	$0.350^{**}$	$0.773^{*}$	$0.936^{**}$	0.284	0.291
	(0.122)	(0.389)	(0.363)	(0.313)	(0.352)
Female x $Easy$ - $Hard$	$0.362^{*}$	0.317	0.303	0.247	0.250
	(0.180)	(0.185)	(0.183)	(0.210)	(0.206)
Performance	-0.0890	-0.0585	-0.0115	-0.0332	-0.0746
	(0.0768)	(0.0773)	(0.0763)	(0.0811)	(0.0696)
Abs Past Performance		-0.104			
		(0.0894)			
Abs Past x Easy-Hard		-0.0947			
		(0.0809)			
Rel Past Performance			$-0.187^{*}$		
			(0.0828)		
Rel Past x Easy-Hard			-0.122		
			(0.0668)		
Abs Future Performance				-0.303**	
				(0.0940)	
Abs Future x Easy-Hard				0.0591	
				(0.0781)	
Rel Future Performance					$-0.252^{***}$
					(0.0687)
Rel Future x Easy-Hard					0.0475
					(0.0776)
Controls	YES	YES	YES	YES	YES
Observations	306	306	306	282	282
Standard errors in parentheses					

Table 10: Difference in Differences between Easy-Hard and Hard-Hard Decisions in BASELINE

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:*GLS random-effect model with robust standard errors. The dependent variable is the willingness to apply, pooling the second and third decisions. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

## 4.5 Inefficiency

## Self-selection into Promotions Does Not Reduce Average Earnings, but It Does Reduce the Number of Women Promoted

Moving forward, we also examine whether there is a loss of earnings due to inefficient sorting into promotion positions. Assuming that participants base their decisions solely on their true relative past performance within their pairings, we expect that their total earnings should not differ from earnings based on their willingness to apply. Our analysis focuses on STEM students for the math task and non-STEM students for the verbal task. Table 11 indicates that there is no significant decrease in the average group bonus between willingness-based sorting and past performance-based sorting, except for the first decision in the verbal domain among non-STEM students. This analysis indicates that participants have a strong understanding of their previous performance overall. Thus, no loss is found when comparing earnings generated by willingness-based sorting with those of past performance-based sorting.

	Willingness-Based	Performance-Based	p-value
Decision 1	7.46	7.49	0.8085
(STEM&Math)	(0.17)	(0.17)	
Decision 2	6.47	6.38	0.2924
(STEM&Math)	(0.19)	(0.19)	
Decision 3	6.09	6.08	0.7723
(STEM&Math)	(0.18)	(0.18)	
Decision 1	6.41	6.66	0.0192
(non-STEM&Verbal)	(0.16)	(0.13)	
Decision 2	6.15	6.26	0.5018
(non-STEM&Verbal)	(0.16)	(0.15)	
Decision 3	6.12	6.17	0.6854
(non-STEM&Verbal)	(0.16)	(0.16)	

Table 11: Mean Group Bonus per Participant

*Notes:* Group bonus means for each decision. Standard deviations are in parentheses. P-Values are based on non-parametric Wilcoxon matched-pairs signed-rank test.

It is noteworthy that willingness-based sorting yields higher earnings in math task among STEM students, although the difference from performance-based sorting is not statistically significant. This finding highlights the possibility that performance on the easy task is not necessarily a good signal for the hard task and additionally that participants are good at identifying their future performance on the harder task. Additionally, a gap in promotion between STEM men and women is found in Decision 2, consistent with the previous findings of this study. In this decision, only 37% of the promoted participants are female, and the difference between promoted men and promoted women is significant at the 1% level (Wilcoxon rank-sum (Mann-Whitney) test, z = 2.988, p = 0.0028).

## 4.6 Closing the Gap

## Presenting STEM Students with a Difficult Math Task First Effectively Closes the Gender Gap in Their Preference for Easier Tasks

Following the results of our first experiment, we designed and pre-registered a new experiment, HIGHDIFFICULTY, intending to close the gender gap in promotion applications. Based on the previous literature on gender differences in ambiguity aversion, we hypothesized that the ambiguity related to the content of the promotional task might be the driving factor behind the gender difference. Our second experiment was run at the WZB-TU lab of the Technical University of Berlin only hiring STEM students. In this experiment, we only concentrated on the male task where we found the main difference in our first experiment.

When participants have the chance to experience the hard task first, the gender gap is no longer present (See Table 12). Therefore, we conclude that task ambiguity is the driver behind the gender difference initially found in BASELINE among STEM students in the male domain. We additionally show that our new experiment closes the promotion gap in the second decision that was identified in BASELINE. In HIGHDIFFICULTY, 49% of the female participants are promoted in the second decision and the difference between men and women is no longer significant (Wilcoxon rank-sum (Mann-Whitney) test, z = 0.748, p = 0.4545). This increase in female promotions does not trigger any new inefficiency in terms of total group bonus that did not exist in BASELINE (Wilcoxon signed-rank test, z = 1.001, p = 0.3169).

	(1)	(2)
	Baseline	HighDifficulty
Female	0.1848	0.0117
	(0.1775)	(0.1715)
Easy-Hard	$0.3500^{**}$	$0.5647^{***}$
	(0.1219)	(0.1262)
Female x $Easy$ -Hard	$0.3623^{*}$	0.0654
	(0.1801)	(0.1969)
Performance	-0.0890	$-0.1607^{*}$
	(0.0768)	(0.0669)
Controls	YES	YES
Observations	306	316

Table 12: The Gender Gap in STEM Students in HIGHDIFFICULTY

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* GLS random-effect model with robust standard errors. The dependent variable is the willingness to apply, pooling the second and third decisions. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

## 5 Conclusion

Our study shows that STEM women refrain from applying for a promotion when easier alternatives are available, which significantly affects the final sorting, making women lose promotion opportunities. We successfully demonstrate that decreasing task difficulty-related ambiguity manages to close this gender gap and increases the sorting efficiency. It emphasizes two important factors. The study field should be considered when analyzing and addressing gender differences in economic decision making. Additionally, the lack of clarity about the difficulty of the task required from promoted candidates appears to be a key factor driving female promotion application behavior. Hence, in our study, in line with other previous findings, providing more information closes the gender gap.

Following our findings, we propose employers draw clear descriptions of the content of the promotional positions for their employees. Some ideas could concern trial periods before promotion applications, increased exposure to managerial tasks and transparency on expectations. Our intervention closes the gap by moving female willingness to apply higher and male lower. Therefore, it also shows the effect of such policies in equalizing the talent pool without making it smaller.

It is important to emphasize, however, that a limitation of our study is its abstract design, which may not fully represent a real-life promotion application setting. However, we know that hierarchical job segregation begins with the first promotion application and increases over the course of an individual's career. Therefore, we do not consider our subject pool to be a limitation. Moreover, we take advantage of the abstract setup to detect the self-limiting behavior that cannot be observed independently of the many confounding factors that occur in real-life settings. Thus, we further demonstrate the ever-present importance of laboratory experiments in policy-making, as any real-world data would have difficulty separating preferences from selflimiting behavior. Moreover, thanks to the lab setup, we also provide panel data where we can observe the behavior of STEM and non-STEM students in both male-dominated and femaledominated tasks, whereas it would not be easy to find setups where engineers (as an example of a male-dominated domain) apply for human resources (as an example of a female-dominated domain) in real life.

Our study further sheds light on the importance of considering background factors in gender studies and therefore fills a crucial gap that can aid in further scrutiny of gender differences. Prior experiments that did not control for the participant's field of study may have either overestimated or underestimated gender differences, depending on the distribution of the participant pool. Our findings indicate that the primary gender differences in confidence are driven by subjects in the STEM field. This finding contradicts the positive selection arguments and adds to the discussion started by Saygin and Atwater (2021) underlining that this preassumed selection might not hold.

Another limitation of our findings is that we can only provide correlational evidence of the effect of STEM fields. We find that the differences only appear between men and women in STEM fields, and whether this difference is due to special selection into these fields from the beginning or whether it is the result of participation in these male-dominated studies. Therefore, we see great value in further research, as these different possible explanations call for different policies to close the gaps.

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## A Appendix

## A.1 Supplementary Analyses

#### A.1.1 Past Performance Expectations in Baseline

	Ma	ath	Ver	·bal
	(Abs)	(Rel)	(Abs)	(Rel)
Male	$0.493^{***}$	$0.444^{**}$	0.223	0.242
	(0.130)	(0.151)	(0.132)	(0.153)
Performance	$0.248^{***}$	$0.307^{***}$	$0.225^{***}$	$0.157^{**}$
	(0.0595)	(0.0699)	(0.0515)	(0.0547)
Controls	YES	YES	YES	YES
Obs	303	303	303	303
$\mathbb{R}^2$	0.285	0.295	0.208	0.151
Standard errors	in parenthes	es		

Table 13: Past Performance Expectations in BASELINE Pooled

Standard errors in parentheses \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited past performance expectations about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

Table 14: Past Performance	Expectations in	BASELINE by	Gender
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	Math				Verbal			
	Μ	en	Wor	nen	Μ	en	Women	
	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)
STEM	0.228	$0.614^{*}$	0.429	0.543	$0.453^{*}$	$0.687^{**}$	0.00259	0.337
	(0.234)	(0.277)	(0.271)	(0.284)	(0.219)	(0.259)	(0.243)	(0.251)
Performance	$0.172^{*}$	$0.431^{***}$	$0.267^{**}$	0.132	$0.214^{**}$	0.0978	$0.201^{*}$	0.149
	(0.0784)	(0.102)	(0.0883)	(0.102)	(0.0765)	(0.0774)	(0.0809)	(0.0789)
Controls	YES	YES	YES	YES	YES	YES	YES	YES
Obs	150	150	153	153	150	150	153	153
$\mathbb{R}^2$	0.359	0.408	0.328	0.357	0.308	0.289	0.315	0.301

Standard errors in parentheses

\* p < 0.05,\*\* p < 0.01,\*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited past performance expectations about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

	Ma	ath	Verbal		
	(Abs)	(Rel)	(Abs)	(Rel)	
Male	$0.949^{***}$	$1.293^{***}$	0.273	$0.586^{*}$	
	(0.229)	(0.269)	(0.212)	(0.245)	
Performance	$0.240^{**}$	0.108	$0.306^{***}$	$0.211^{*}$	
	(0.0863)	(0.109)	(0.0743)	(0.0831)	
Controls	YES	YES	YES	YES	
Obs	160	160	160	160	
$\mathbf{R}^2$	0.409	0.407	0.277	0.227	

Table 15: Past Performance Expectations in BASELINE Comparing STEM Men to Non-STEM Women

Standard errors in parentheses \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited past performance expectations about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

## A.1.2 Future Performance Expectations in a Familiar (Easy) Task in Baseline

Table 16: Future Performance Expectations in a Familiar (	(Easy) Task in BASELINE by Field of
Study	

		Math				Verbal			
	ST	EM	Non-S	Non-STEM		STEM		Non-STEM	
	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)	
Male	0.480**	$0.596^{**}$	$0.526^{*}$	0.389	0.151	0.124	0.0876	0.328	
	(0.155)	(0.206)	(0.223)	(0.245)	(0.183)	(0.204)	(0.218)	(0.262)	
Performance	$0.207^{**}$	$0.308^{**}$	$0.334^{***}$	$0.295^{**}$	$0.145^{*}$	0.107	$0.305^{***}$	$0.224^{**}$	
	(0.0738)	(0.0971)	(0.0938)	(0.110)	(0.0708)	(0.0729)	(0.0661)	(0.0852)	
Controls	YES	YES	YES	YES	YES	YES	YES	YES	
Obs	153	153	150	150	153	153	150	150	
$\mathbb{R}^2$	0.456	0.390	0.487	0.390	0.324	0.299	0.366	0.278	

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited future performance expectations in an easy task about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

		Math				Verbal			
	Μ	en	Won	nen	Men		Women		
	(Abs)	(Rel)	(Abs)	$(\mathrm{Rel})$	(Abs)	(Rel)	(Abs)	(Rel)	
STEM	0.277	0.818**	0.452	0.570	0.431	$0.645^{*}$	0.115	0.365	
	(0.220)	(0.260)	(0.263)	(0.288)	(0.221)	(0.273)	(0.217)	(0.250)	
Performance	$0.263^{**}$	$0.471^{***}$	$0.321^{***}$	0.178	$0.253^{***}$	$0.193^{*}$	$0.188^{**}$	0.0960	
	(0.0862)	(0.106)	(0.0821)	(0.107)	(0.0646)	(0.0793)	(0.0704)	(0.0700)	
Controls	YES	YES	YES	YES	YES	YES	YES	YES	
Obs	150	150	153	153	150	150	153	153	
$\mathbb{R}^2$	0.413	0.422	0.406	0.383	0.364	0.311	0.353	0.292	

Table 17: Future Performance Expectations in a Familiar (Easy) Task in BASELINE by Gender

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited future performance expectations in a hard task about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

#### A.1.3 Future Performance Expectations in a Hard Task in Baseline

Table 18: Future Per	formance Expectation	s in a Hard Task	k in BASELINE by	Field of Study

		Ma	th		Verbal				
	ST	EM	Non-S	TEM	ST	STEM		Non-STEM	
	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)	
Male	0.489**	$0.597^{**}$	0.322	0.224	0.373	0.350	0.0495	0.251	
	(0.182)	(0.205)	(0.234)	(0.259)	(0.215)	(0.225)	(0.229)	(0.275)	
Performance	$0.171^{*}$	$0.375^{***}$	0.132	0.145	0.0872	0.165	$0.207^{**}$	$0.203^{*}$	
	(0.0821)	(0.0966)	(0.0932)	(0.112)	(0.0870)	(0.0854)	(0.0686)	(0.100)	
Controls	YES	YES	YES	YES	YES	YES	YES	YES	
Obs	153	153	150	150	153	153	150	150	
$\mathbf{R}^2$	0.346	0.423	0.332	0.341	0.268	0.310	0.327	0.292	

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited future performance expectations in a hard task about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

		Math				Verbal			
	Μ	en	Won	nen	Men		Women		
	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)	(Abs)	(Rel)	
STEM	0.449	$1.071^{***}$	0.205	0.605	0.491	$0.666^{*}$	-0.189	0.343	
	(0.256)	(0.288)	(0.265)	(0.317)	(0.308)	(0.324)	(0.240)	(0.269)	
Performance	0.127	$0.406^{***}$	$0.181^{*}$	0.126	$0.201^{*}$	$0.329^{***}$	0.126	0.0893	
	(0.0871)	(0.104)	(0.0866)	(0.115)	(0.0819)	(0.0940)	(0.0731)	(0.0803)	
Controls	YES	YES	YES	YES	YES	YES	YES	YES	
Obs	150	150	153	153	150	150	153	153	
$\mathbb{R}^2$	0.385	0.501	0.344	0.317	0.301	0.339	0.267	0.319	

Table 19: Future Performance Expectations in a Hard Task in BASELINE by Gender

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited future performance expectations in a hard task about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

Table 20: Future Performance Expectations in a Hard Task in BASELINE Comparing Non-STEM Men to STEM Women

	Ma	ath	Verbal		
	(Abs)	(Rel)	(Abs)	(Rel)	
Male	0.196	-0.145	0.280	-0.00869	
	(0.266)	(0.333)	(0.331)	(0.385)	
Performance	$0.185^{*}$	$0.448^{***}$	0.101	0.150	
	(0.0828)	(0.0998)	(0.0767)	(0.0937)	
Controls	YES	YES	YES	YES	
Obs	143	143	143	143	
$\mathbb{R}^2$	0.351	0.438	0.268	0.323	

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited future performance expectations in a hard task about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

 Table 21: Future Performance Expectations in a Hard Task in BASELINE Comparing STEM

 Men to Non-STEM Women

	Ma	ath	Verbal		
	(Abs)	(Rel)	(Abs)	(Rel)	
Male	0.806**	$1.656^{***}$	0.189	$0.661^{**}$	
	(0.243)	(0.269)	(0.244)	(0.247)	
Performance	0.130	0.0883	$0.189^{*}$	$0.210^{*}$	
	(0.0912)	(0.124)	(0.0751)	(0.0823)	
Controls	YES	YES	YES	YES	
Obs	160	160	160	160	
$\mathbb{R}^2$	0.380	0.457	0.224	0.288	

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* OLS model with robust standard errors. The dependent variables are elicited future performance expectations in a hard task about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

## A.2 Willingness to Apply for Promotions in Baseline

## A.2.1 Pooled Willingness to Apply for Promotions

	NS men vs NS women		NS men vs S women		S women vs NS women	
	Math	Verbal	Math	Verbal	Math	Verbal
Male	-0.184	-0.235	-0.0687	-0.138		
	(0.154)	(0.136)	(0.187)	(0.195)		
STEM					-0.215	-0.0454
					(0.173)	(0.170)
Performance	-0.0683	$-0.105^{*}$	$-0.191^{**}$	-0.0822	$-0.120^{*}$	-0.0240
	(0.0581)	(0.0437)	(0.0689)	(0.0483)	(0.0584)	(0.0430)
Controls	YES	YES	YES	YES	YES	YES
Obs	450	450	429	429	480	480

Table 22: Pooled Willingness to Apply in BASELINE

Standard errors in parentheses. NS: Non-STEM, S:STEM.

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* Random effects model with robust standard errors. The dependent variables are pooled past performance expectations about absolute and relative performances. Controls include age, education, employment status, German origins, session fixed effects and task order variables.

## A.2.2 Willingness to Apply for Promotions by Task Difficulty

	Easy-Hard	vs Hard-Hard	Easy-Easy	vs Hard-Hard
	Math	Verbal	Math	Verbal
Female	$0.559^{**}$	-0.166	$0.652^{***}$	-0.206
	(0.186)	(0.171)	(0.174)	(0.167)
Easy-Hard	$0.350^{**}$	$0.288^{*}$		
	(0.122)	(0.116)		
Female x <i>Easy-Hard</i>	0.250	$0.588^{***}$		
	(0.189)	(0.176)		
Easy-Easy			-0.325**	$-0.188^{*}$
			(0.101)	(0.0921)
Female x <i>Easy-Easy</i>			-0.0125	0.113
			(0.158)	(0.130)
Performance	-0.0116	$-0.0944^{*}$	0.0309	-0.131*
	(0.0574)	(0.0473)	(0.0596)	(0.0526)
Controls	YES	YES	YES	YES
Observations	320	320	320	320

Table 23: Difference in Differences between STEM Men and non-STEM Women

Standard errors in parentheses

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

*Notes:* GLS random-effect model with robust standard errors. The dependent variable is the willingness to apply pooling the second and third decisions for *Easy-Hard* vs *Hard-Hard*, and the first and third decisions for *Easy-Easy* vs *Hard-Hard*. *Hard Task* stands for the third decision where the novice job also has the hard difficulty questions as the task. Controls include age, correct answers, education, employment status, German origins, university and task order variables.

## A.3 Instructions

## A.3.1 Experiment 1

Figure 2: Page 1

	Remaining Time [sec] 10
Welcome to the study!           This is an experiment in economic decision making, funded by the Collaborative           Research Center and Humbold University (CRC).           The entire study should take no longer than 75 minutes.           The study is designed to understand how people make economic decisions. You must be at least 18 years old to participate in this study.	
<ul> <li>Your responses will be kept anonymous and confidential.</li> <li>For your participation, you will receive 7.5 euros show up fee. In the course of the experiment, you can earn additional money based on your decisions. You will be given further instructions how you can earn extra money.</li> </ul>	
* During the experiment, you are not allowed to use electronic devices or communicate with other participants. Please use only the programs and functions intended for the experiment. Please do not talk to the other participants. If you have a question, please raise your hand. We will then come to you and answer your question silently. Please do not ask to your questions out loud under any circumstances. If the question is relevant to all participants, we will repeat it out loud and answer it. If you violate these rules, we will have to exclude you from the experiment and the payout.	
<ul> <li>If you have any questions about this study, then you can email Humboldt University doctoral student Müge Süer (sueermue@hu-berlin.de).</li> </ul>	
The following pages explain the experiment in detail. Please read them carefully.	Next

Figure 3: Page 2

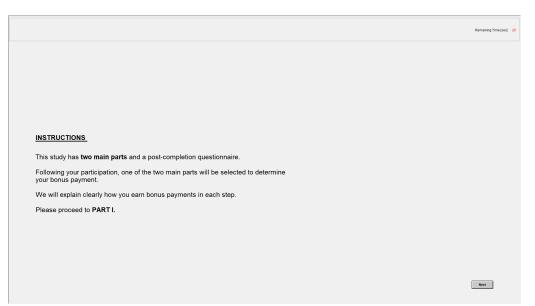


Figure 4: Page 3

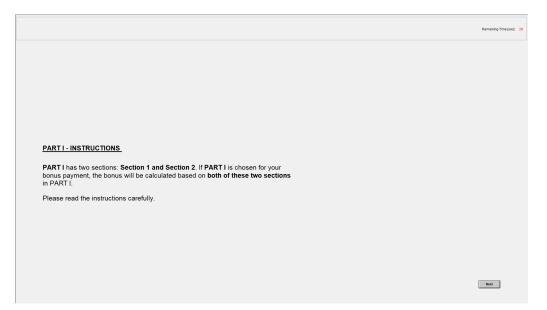


Figure 5: Page 4

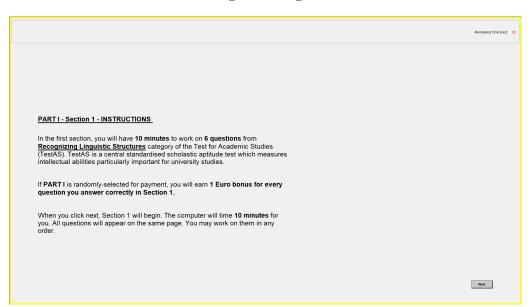


Figure 6: Page 5

			Remaining Ti
PART I - Section 1			
lo Roccanizina Linewistic &	ectures, you will be shown several expressions in invented foreign languages and their English translation.		
This will allow you to derive provided expressions to ans	e meaning of individual words and some grammatical rules in the respective foreign language. This information will help you answer the subsequent guesti	ons. In each case two exercises relate to a certain language. Therefore please only use the	
	imption that there are no exceptions to the rules (e.g. integual vertos) and only those rules apply which may be derived from the provided expressions. 3 medium difficulty questions! Please note that you will earn 1 Euro bonus per question you answer correctly.		
	Question 1:	C tu ko	
	palo ko = i sit palo tu = she sita	C ko karo	
	karo tu = she stands	C karo ko C karo palo	
	"I stand" is expressed in the foreign language by:	( Naro paro	
	Question 2:	C novot suvosir hidamo	
	tundo ramodopo novot = The pupil called his uncle. namidu kavino suvavot = The saleswoman greated the teacher.	<ul> <li>namidu hidamopu suvavot</li> <li>novot hidamopo suvasir</li> </ul>	
	tundu kavinopu tetavosir = The schoolgirl is asking her teacher. hidamo tundo nosir = The caretaker is scolding the pupil.	C ramodo hidamopo suvavol	
	"The uncle greeted his caretaker" is expressed in the foreign language by:	<ul> <li>Territola industriga distance</li> </ul>	
	Question X	C rumpulemp tschik rengzi	
	rumpulópp = The child is sleeping. renguming tschik lóppzi = The person is protecting his child.	C rengliópp tschik lempzi	
	rumpilemp gum = The goat is sleeping deepty.	C rumpilemp tschik lõppzi	
	yanitzorr lempsi = The lion is killing the goat. "The child is protecting his goat" is expressed in the foreign language by:	C rengulõpp tschik lempzi	
	Question 4:	C sat0a	
	kolos = I lie kol0e = he lav	C kolOa	
	satos = he stands	C satos	
	What is 'I stood' in the foreign language?	( sata	
	Question 2:	C satue	
	sakua = I went	C sakee	
	lobue = he came "He drives" is expressed in the foreign language by:	Clotae	
	Question 6:	C tolodolu	
	tuludola = I called folodola = we called	C tuludolu	
	tolodol = we call	C tuludol C toludolu	
	"I will call' is expressed	( 100000	Submit

Figure 7: Page 6

ed Section 1. councy is the features of the other participants who are also completing this task after as any to Table . The compare the number of postemic you colled corredy in black that is a diverse by other in councy is the performance of the other participants who are also completing this task after as any to Table . The compare the number of postemic you colled corredy in black that is a diverse by other in councy of participants who are also completing this task after as are time as you. Table . The compare the number of postemic you colled corredy in black that that the other than 10 of C In the total of a diverse that that the diverse base of the total of the total postemes the that that the diverse base that 10 of C In the total of a diverse that that the diverse base of the diverse base that 10 of C In the total of a diverse base of the	PART I - Section 1 Congratulations! You completed Section 1. Place provide a poss of them many of the \$ protoes you solved convidy in the forst section. Place work a number to be the section to the data provide a poss of them many of the \$ protoes you solved convidy in the forst section. Place work a number to be the section to the data protoes of the other participants who are able completing in the last of the another than 1 of Configuration in the last section to the data sect	
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C Top 20% of performers (at least 80% of all participants in the lab performed worse than I clid)	Top 20% of performers (at least 80% of all participants in the lab performed worse than I clid)	se than I did)
		oftom 40% of performers (al least 60% of all participants in the lab performed before than 1 did) the middle (al least 40% of all participants in the lab performed before than 1 did, and at least 40% performed wors pp 40% of performers (at least 60% of all participants in the lab performed worse than 1 did) pp 70% of performers (at least 60% of all participants in the lab performed worse than 1 did)
	_	
		ок

Figure 8: Page 7

	Remaining Time (sec
PART I - Section 1	
Attention! Please answer now based on your future expectations.	
Please provide gruss of how many problems you think you would solve correctly if you were given 6 NEW QUESTIONS (in the same category and difficulty level as Section 1, i.a. 3 low, 3 medium difficulty Recognizing Linguistic Structures questions).	
Please provide a gases of how your performance in these 6 NEW QUESTIONS would rank relative to the performance of the other participants. That is, if we compare	
	C Bottom 5% of performers (at least 9% of all participants in the lab would perform better than I would) Bottom 2% of performers (at least 9% of all participants in the lab would perform better than I would) C Bottom 4% of performers (at least 9% of all participants in the lab would perform better than I would) C In the model of lates at 4% of all participants in the lab would perform works and would and of least 4% of would perform works than I would)
	Top 40% of performers (all least 00% of all participants in the lab would perform worse than invould)     Top 20% of performers (all least 00% of all participants in the lab would perform worse than invould)     Top 5% of performers (all least 5% of all participants in the lab would perform worse than invould)
	OK

Figure 9: Page 8

	Remaining Tr
PART I - Section 1	
Attention! Please answer now based on your future expectations.	
Please provide a guess of how many problems you think you would solve correctly if you were given 6 HIGH DIFFICULTY QUE STIONS (in the same category and afficulty (level as Section 1, i.e. 3 low, 3 medium difficulty Recognizing Linguistic Structures questions).	
Please enter a number between 0 and 6)	
Please provide a guess of how your performance in these 6 HIGH DIFFICULTY QUESTIONS would rank relative to the performance of the other participants. That is, if w you rank?	we compare the number of problems you solved correctly in Section 1 to the number solved correctly by other participants in the lab, where would
	Bottom 5% of performers (at least 95% of all participants in the lab would perform better than I would)     Bottom 20% of performers (at least 80% of all participants in the lab would perform better than I would)
	C Bottom 40% of partormers (at least 60%) of all participants in the lab would perform better than I would) C In the middle (at least 40% of all participants in the lab would perform better than I would, and at least 40% would perform worse than I would)
	Top 40% of performers (at least 60% of all participants in the lab would perform worse than I would)     Top 20% of performers (at least 80% of all participants in the lab would perform worse than I would)     Top 25% of performers (at least 95% of all participants in the lab would perform worse than I would)
	ОК

Figure 10: Page 9

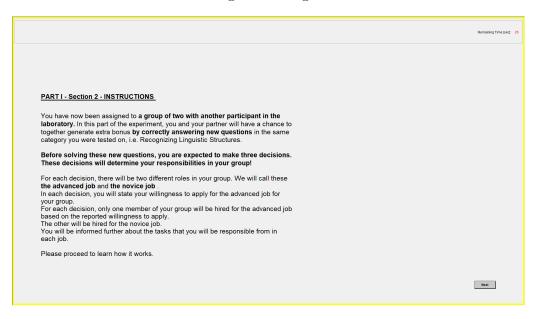
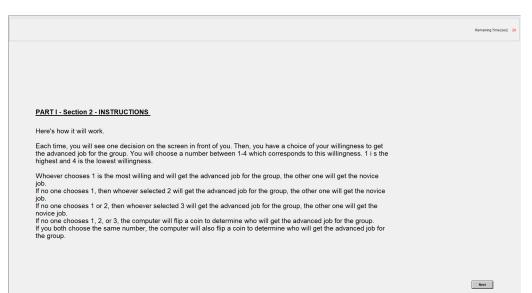


Figure 11: Page 10



39

Figure 12: Page 11

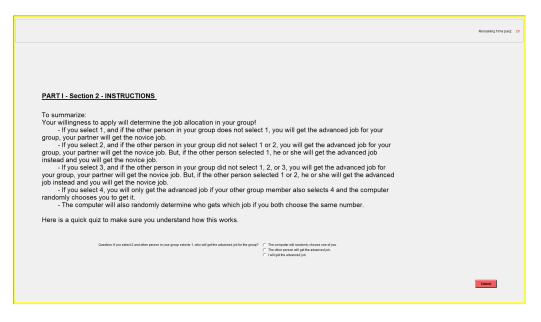


Figure 13: Page 12

	Remaining Time (sec): 27
PART I - Section 2 - INSTRUCTIONS	
Congrats! The correct answer was <b>"the other person will get the advanced job".</b> Please raise your hand if you have any questions. If not, please proceed.	
	Next

## Figure 14: Page 13 (Waitingscreen)

Pess val util 14 septiment activus.

Figure 15: Page 14

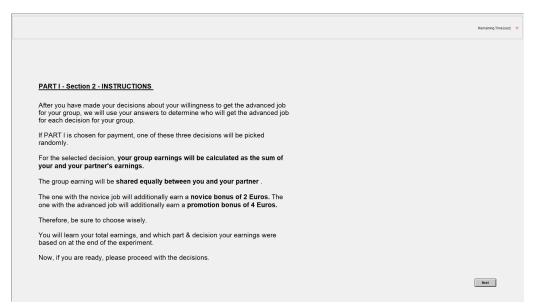


Figure 16: Page 15

	Remaining Time (sec):
PART I - Section 2	
Please read the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job. Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros. The advanced job and the novice job might have the same tasks but inght lab have different tasks. Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if your partner solves more questions than you.	
Decision 1:	
Novice Job Definition: Solve 2 Iow, 2 medium difficulty (total 4) Recognizing Linguistic Structures questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus)	
Advanced Job Definition: Solve 2 low, 2 medium difficulty (total 4) Recognizing Linguistic Structures questions Contribute 4 Euros per correctly answered question to the group earnings Earna netra 4 Euros promotion bonus (The final earning will be half of the group earnings plus the promotion bonus)	
My willingness to apply for the advanced job for our group in this decision: C 1 C 2 C 3 C 4 (Them to be indirect willingness to apply)	
	Next

Figure 17: Page 16

fe	emaining Time (sec)
PART I - Section 2	
Please read the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job. Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an additional 4 Euros personal bornus, whereas the novice job holder 2 Euros. The advanced job and the novice job might have the same tasks but might also have different tasks. Your group earnings would be lighter if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if your partner solves more questions than you.	
Decision 2:	
Novice Job Definition: Solve 2 low, 2 medium difficulty (total 4) Recognizing Linguistic Structures questions Contribute 1 Euro per correctly answered question to the group earnings E arm an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus)	
Advanced Job Definition: Solve 4 high difficulty difficulty (total 4) Recognizing Linguistic Structures questions Contribute 4 Euros per correctly answered question to the group earnings E arm an extra 4 Euros promotion bonus (The final earning will be half of the group earnings plus the promotion bonus)	
My utilingness to scope for the advanced job for one group in this decision: C 1 C 2 C 3 C 4 (Thereag the highest valingness to scope)	
	Next

Figure 18: Page 17

	Remaining Time J
PART I - Section 2	
Please read the job definitions carefully and state your willingness (1-4) in order to apply for the advance Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, Please note that the advanced job holder gains an additional 4 Euros personal bonus, whereas the novice The advanced job and the novice job might have the same tasks but might also have different tasks Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, partner solves more questions than you.	whereas the novice job 1 Euro. job holder 2 Euros.
Decision 3:	
Novice Job Definition: Solve 4 high difficulty (total 4) Recognizing Linguistic Structures questions Contribute 1 Euro per correctly answered question to the group earnings Earna nextra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus)	
Advanced Job Definition: Solve 4 high difficulty difficulty (total 4) Recognizing Linguistic Structures questions Contribute 4 Euros per correctly answered question to the group earnings Earna nextra 4 Euros promotion bonus (The final earning will be half of the group earnings plus the promotion bonus)	
My willingness to apply for the advanced job for our group in this decision: (1 being the highest willingness to apply)	C1 C2 C3 C4
	Next

Figure 19: Page 18

	Remaining Time [sec]: 2
PART I - Section 2 - INSTRUCTIONS	
Congratulations! You completed your decisions. Please proceed to the new questions.	

Figure 20: Page 19

	Remaining Time (sec): 28
PART I - Section 2 - INSTRUCTIONS	
Now you will solve 8 multiple-choice TestAS problems. These problems will come from the same subject as the problems you have solved in Section 1.	
The first 4 of the 8 problems have low and medium difficulty levels as in Section 1. You will receive 6 minutes to solve the low and medium difficulty problems.	
Then you will be directed to the remaining 4 questions. They have high difficulty level. You will receive 8 minutes for the high difficulty questions.	
The number of correctly solved problems combined with your job choice from one of the randomly selected decisions will determine your payoffs.	
Therefore, please answer all questions as carefully and as best as you can.	
When you click next, the low & medium questions part will begin. The computer will time 6 minutes for you. All questions will appear on the same page. You may work on them in any order as before.	
	Next

Figure 21: Page 20

		Remaining T
PART 1 - Section 2		
In Recognizing Linguistic Structures, you w	It be shown several expressions in invented foreign languages and their English translation.	
the guestions.	ndvidual words and some grammatical rules in the respective foreign language. This information will help you answer the subsequent questions. In re are no exceptions to the rules (e.g. irregular verbs) and only those rules apply which may be derived from the provided expressions.	n each case two exercises relate to a certain language. Therefore prease only use the provided expressions to answer
	cully questions! Please note that your answers in this session will determine your bonus in Section 2.	
	Question 1:	C tolulutta
	tuludola = I called toldola = we called	C tolokuta
	tolodos = we call bulados = will call	C tolokutt
	wadou = win can "We fell" is expressed in the foreign language by:	1 Conferment
	Question 2:	C saluan
	iotea = I come sakua = I went	C lotean C sakua
	lotue = he came "We went" is expressed in the foreign language by:	C satea
	Question 3: yoxohii 20 = she sang	C yotole zu C yoxobiu ze
	yanchlu zu = I sang yanchle zu = I sing	C yotoli zo
	yotell 20 = she has been painted "I paint" is expressed in the foreign language by:	C yotohie zu
	Question 4:	C cultoreu
	thechai = I closed thecheu = he closes	C cultoleu
		C thechaeu
	cuixoi = I blame	C cuiroseu
		C cultoseu
	cuixoi = I blame	C catabetu
	cuixoi = I blame	C coloseu

Figure 22: Page 21



Figure 23: Page 22

		Remaining Time (
PART1 - Section 2		
This will allow you to derive the meaning the questions. You may proceed on the assumption that	u will be abown several expressions in monted toroign languages and their English translation. of nobidual words and some grammatical rules in the respective toroign language. This information will help you answer the subsequent questions. In ea there are no exceptions to the rules (e.g. imeguiar words) and only those rules apply which may be derived them the provided expressions.	ach case two exercises relate to a certain language. Therefore please only use the provided expressions to answer
Now solve 4 high difficulty questions! Ple	ase note that your answers in this session will determine your bonus in Section 2.	
	Question 1: pura selveui = The child is coming from the hut. pura type u = The cat is going to the hut.	C Iom selveu C Iom selveu C Iom farviu
	lom fameuel = The famme is coming from the field. born selveu = The child is waiking to the meadow. "The child is waiking to the field" is expressed in the foreign language by:	C puns selveu
	Question 2. po namal = He isams everything.	C po maile C ?kemal po
	su 7maina = You will learn. Ki 7maina = I will learn nothing. Iemai rah maile su = Are you learning a lot or a 1899?.	C "malle po C po ?lema
	?nator ak = WII we aak everything? "Wii he learn a little" is expressed in the foreign language by:	
	Grestion 3: ao tane lom sok bani jo sharuli = He spoke on the radio yesterday.	⊂ ao tane shill ao rumi ⊂ shilltane ao rumi
	ao hailonn yal baariao kunta = He wali kawa hopongaan tokinotow. ao sinaki kosi okosino ao hai - Yaka wa taffang aturkawatiyi wali kawaning, ao rumi lom chali jo kasomo = I am takaning aturkawatiyi boday. 11 - spakat, and hakani'a epersesa di his hofengia language by:	C ao tane Iom jo rumi C tane ao rumi Iom
	Geestion 4: multamote = The daughter cools.	C multipleng pat
	sempularity late matcare - The tables and to its doughter. multipularity as it - The finder costs withings: laccurant tool guimpers = The neighbor visable its find. The father selendry costs' is expressed in the foreign language by:	C notkungaleng lanzu C mulkinoburg fenge C malkudeng notkungse

Figure 24: Page 23



Figure 25: Page 24 (Waitingscreen)

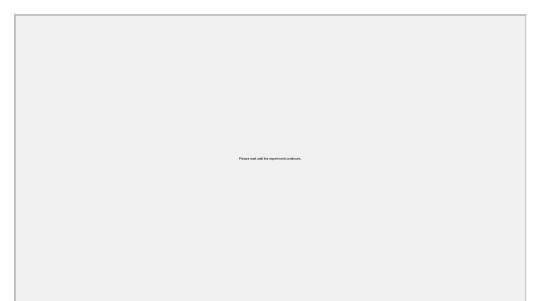


Figure 26: Page 25

PART II - INSTRUCTIONS  PART II - INSTRUCTIONS  Make and the instructions sectors a field backed a 2.1PART is chosen for your bourg payment, the bonus will be calculated based in toth of these sectors a method.		
Sould to PART. PART that two sections Section 2. FPART Is chosen for your bonup agreent, the bonup will be calculated based on both of these sections in PART. I		Remaining Time (se
Sould to PART. PART that two sections Section 2. FPART Is chosen for your bonup agreent, the bonup will be calculated based on both of these sections in PART. I		
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Sould to PART. PART that two sections Section 2. FPART Is chosen for your bonup agreent, the bonup will be calculated based on both of these sections in PART. I		
Sould to PART. PART that two sections Section 2. FPART Is chosen for your bonup agreent, the bonup will be calculated based on both of these sections in PART. I		
Sould to PART. PART that two sections Section 2. FPART Is chosen for your bonup agreent, the bonup will be calculated based on both of these sections in PART. I		
Sould to PART. PART that two sections Section 2. FPART Is chosen for your bonup agreent, the bonup will be calculated based on both of these sections in PART. I		
Pease read the instructions canduly.	PART II - INSTRUCTIONS	
Pease read the instructions canduly.		
	Similar to PART I. PART I has two sections. Section 1 and Section 2. If PART I is chosen for your bonus payment, the bonus will be calculated based on both of these sections in PART I.	
Not		
Not		
Not		
liont		
Rest		
Next		

Figure 27: Page 26

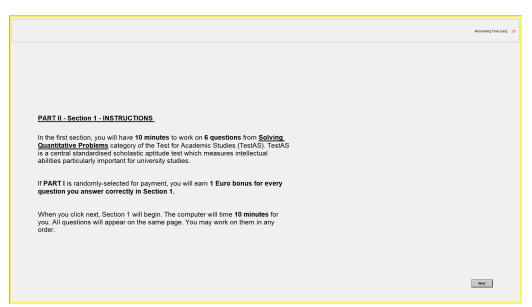


Figure 28: Page 27

			Remaining T
PART II - Section 1			
In Solving Quantitative Problems	you will find some problems which you have to solve.		
	nd 3 medium difficulty questions. Please note that you will earn 1 Euro bonus per question you answer correctly.		
	Question 1: A student works in a factory during the holidays. He is paid a wage of 10 Euro an hour. He works 8 hours a day and 5 days a week. How much has he earned after four weeks of work?	C 800 Euro C 1200 Euro	
		C 1600 Euro C 2000 Euro	
	Question 2: 2,500 bottles contain 650 litres of a soft drink. How many litres do 5,000 bottles hold?	C 338 litres C 1000 litres	
		C 1250 litres C 1300 litres	
	Question 3: Cortinna has a photo which is 9 cm wide and 6 cm high. She would like to have it enlarged to a width of 15 cm. The ratio of width to height is to remain the same. How high will the	C 11 cm C 10 cm	
	photo be?	C 9 cm C 8 cm	
	Question 4: Dors and her three siblings Anton, Berts and Carl are an average of 5 years old. Anton is 2, Berta 6 and Carl 7. Dora, her cousin Hanna, Hanna's trother Emil (18), Hanna's sister	C 6 C 10	
	Franka (8) and Hanna's brother Gustav (1) are an average of 10 years old. How old is Dora's cousin Hanna?	C 15	
		C 20	
	Question 5: In a call center, 60% of the men and 72% of the women manage to make sales during their calls. What percentage of the entire company is men who make sales?	C 60 C 36	
	In a car center, control net and so to the remain manage to mane same same set one. This percentage of the sinte company to man mane same r	C 30	
		C 28	
	Question 6:	C 7	
	Mary is planning to make a full shake. She has watermelon, apple, orange, banana, mango, pineapple, and guava. In how many ways can she mix exactly three fulls for the full shake?	C 21 C 35	
		C 62	
			Submit

Figure 29: Page 28

	Remaining
	· · · · · · · · · · · · · · · · · · ·
PART II - Section 1	
Congratulations! You completed Section 1.	
Please provide a guess of how many of the 6 problems you solved correctly in the first section.	
(Please enter a number between 0 and 6)	
Please provide a guess of how your performance in the first section ranked relative to the performance of the other participants who a participants in the lab, where would you rank?	are also completing this task at the same time as you. That is, if we compare the number of problems you solved correctly in Section 1 to the number solved correctly by other
	C Bottom 5% of parformers (at least 95% of all participants in the lab parformed better than I did) C Bottom 20% of parformers (at least 80% of all participants in the lab performed better than I did)
	C Bobtom 40 W d performers (at least 60 W d d) participants in the six performed better than 1 dd) C In the middle (at least 40 W of all participants in the lab performed better than 1 dd, and at least 40 W performed worse than 1 dd) C Top 40 W operformers (at least 60 W of all participants in the lab performed worse than 1 dd)
	C Top 5% of performers (at least 59% of all participants in the lab performed worse than 1 did) C Top 5% of performers (at least 59% of all participants in the lab performed worse than 1 did)

Figure 30: Page 29

	Remaining Time (sed
PART I - Section 1	
Attention! Please answer now based on your future expectations.	
Please provide a guess of how many problems you boil; you would solve correct/ if you were given 6 NEW QUE STICHS (in the same category and difficult) level as Gendon (1, 1, 3) and with and difficulty Golandtable Problems questions). (Please enter a many technologies between 0 and 0) and on the same category and difficulty level as	1
Please provide a guess of how your performance in these 6 NEW QUESTIONS would rank relative to the performance of the other participants. That is, if we compare to	
	C Bottom 5% of preformers: (at least 95% of all participants) in the lab would perform before than invouid) C Bottom 25% or preformers: (at least 95% of all participants in the lab would perform before than invouid) C Bottom 45% of particimants: (at least 95% of all participants in the lab would perform before than invouid) C In the model (at least 45% of all participants in the lab would perform works and and an all would)
	The throads (all reads why the data plants) and the law volue plants when it must volue, and it was a was who would plants when would plants the volue of the law volue plants when the volue of the volue plants when
	ОК

Figure 31: Page 30

	Remaining Time
PART I - Section 1	
Attention! Please answer now based on your future expectations.	
Plaza provide a prese of how many problems you bink you would solve correctly if you were given 6 HiGH DIFFICULTY QUESTIONS (in the same category and difficult lead as dection 1, is, 3 now 1 medium difficulty dowing Quantitable Problems questions).	
Presse provide a guess of how your performance in these 6 HGH DIFFICULIY QUESTIONS would rank relative to the performance of the other participants. That is, your relation	If we compare the number of problems you solved correctly in Section 1 to the number solved correctly by other participants in the lab, where would
you rank /	C Bottom 5% of performers (at least 95% of all participants in the lab would perform better than I would) C Bottom 25% of performers (at least 80% of all participants in the lab would perform better than I would)
	C Bottom 40% of performers (at least 60% of all participants in the lab would perform better than I would) C In the middle (at least 40% of all participants in the lab would perform better than I would, and at least 40% would perform worse than I would)
	C Top 40% of performers (at least 80% of all participants in the lab would perform worse than I would) C Top 20% of performers (at least 80% of all participants in the lab would perform worse than I would) C Top 5% of performers (at least 95% of all participants in the lab would perform worse than I would)
	<ul> <li>Top the or performents (at reast solve or an participants in one tab woord periorin worse train in word)</li> </ul>
	ок

Figure 32: Page 31

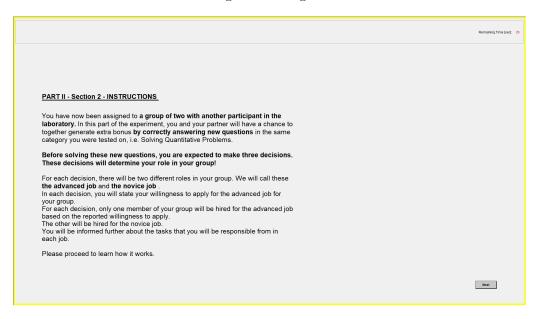
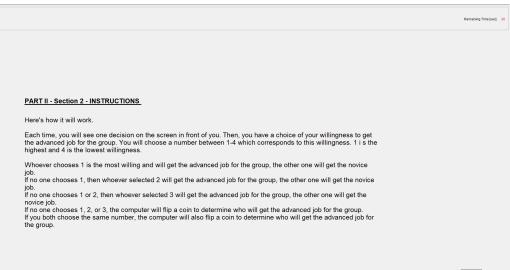


Figure 33: Page 32



Next

Figure 34: Page 33

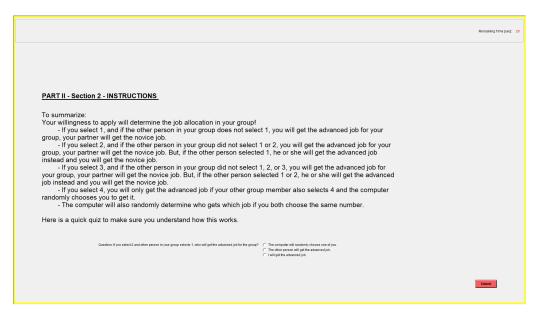


Figure 35: Page 34

	Remaining Time [sed]
PART II - Section 2 - INSTRUCTIONS	
Congrats! The correct answer was <b>"the other person will get the advanced job".</b> Please raise your hand if you have any questions. If not, please proceed.	
	Next

51

## Figure 36: Page 35 (Waitingscreen)

Peas val util he opprend cotinus.

Figure 37: Page 36

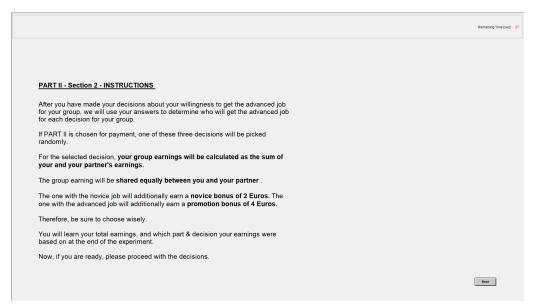


Figure 38: Page 37

		Remaining Time (sec)
PART II - Section 2		
Please read the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job. Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro Please note that the advanced job holder gains an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros. The advanced job and the novice job might have the same tasks but might also have different tasks. Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings m partner solves more questions than you.		
Decision 1:		
Novice Job Definition: Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros nove bonus (The final earning will be half of the group earnings plus the novice bonus)		
Advanced Job Definition: Solve Z low, Z medium difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros promotion bonus (The final earning will be half of the group earnings plus the promotion bonus)		
My willagess to apply for the advanced job for our group in this decision: (1 keing the highest willingeness to apply)	1 C 2 C 3 C 4	
	ĺ	Next

Figure 39: Page 38

	Remaining Time
PART II - Section 2	
Please read the job definitions carefully and state your willingness (1-4) in order to apply for the adv Please note that the advanced job always contributes 4 Euros per correct answer to the group earn Please note that the advanced job holder gains an advalinal 4 Euros personal hours, whereas the The advanced job and the novice job might have the same tasks but might also have different t Your group earnings would be higher if the better performer in your group gets the advanced job. He partner solves more questions than you.	ings, whereas the novice job 1 Euro. novice job holder 2 Euros. asks.
Decision 2:	
Novice Job Definition: Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus)	
Advanced Job Definition: Solve 4 high difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros promotion bonus (The final earning will be half of the group earnings plus the promotion bonus)	
My willingness to apply for the advanced job for our group in this decision: (1 being the highest withingness to apply)	C 1 C 2 C 3 C 4
	Next

Figure 40: Page 39

	Remaining Time (sec)
PART II - Section 2	
Please read the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job. Please note that the advanced job adways contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an additional 4 Europ sersonal bonus, whereas the novice job holder 2 Euros. The advanced job and the novice job <b>might have the same tasks but might also have different tasks.</b> Your group earnings would be lighter if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice partner solves more questions than you.	job if your
Decision 3:	
Novice Job Definition: Solve 4 high difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earna net vra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus)	
Advanced Job Definition: Solve 4 high difficulty difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earna nextra 4 Euros promotion bonus (The final earning will be half of the group earnings plus the promotion bonus)	
My willingness to apply for the advanced jub for our group in this decision: C 1 C 2 C 3 C 4 (1 being the highest willingness to apply)	
	Next

Figure 41: Page 40

PART II - Section 2 - INSTRUCTIONS Congratulations! You completed your decisions. Please proceed to the new questions.		Remaining Tin
Congratulations! You completed your decisions. Please proceed to the new		
Congratulations! You completed your decisions. Please proceed to the new		
Congratulations! You completed your decisions. Please proceed to the new		
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Congratulations! You completed your decisions. Please proceed to the new		
Congratulations! You completed your decisions. Please proceed to the new		
Congratulations! You completed your decisions. Please proceed to the new	PART II - Section 2 - INSTRUCTIONS	
Congratulations! You completed your decisions. Please proceed to the new questions.		
questions.	Congratulations! You completed your decisions. Please proceed to the new	
	questions.	

Figure 42: Page 41

			Remaining Time (sec)
PART II - Section 2			
In In Solving Quantitative Problems, you will find som	e problems which you have to solve.		
Now solve 2 low difficulty and 2 medium difficulty qu	stions! Please note that your answers in this session will determine your bonus in Section 2.		
	Question 1:	C 195	
	A working day is 8 hours long and a working week is five days long. A woman receives a wape of 25 Euros per hour. If she works for longer than 8 hours per day she receives 30 Euros for each entra hour she works. In 4 weeks, she earns 4,500 Euros. How many hours did she work altogether in those four weeks?	C 180 C 175	
		← 160	
	Question 2; Lisa, who is 160 cm tail, is standing 170 cm from her brother Eric, who is 180 cm tail. They begin to walk toward each other If one step equals 1/10 of their respective heights, after how	€ 2	
	Lisa, who is "to om tail, is standing "10 om trom ner brother Enc, who is "too om tail. They begin to wark toward each other, it one seep equals "110 of their respective neights, after how many steps will they meet each other?	C 4	
		C 6	
	Question 3: If $q_3 = 25$ , calculate the equation (2)-q)/2q.	C 0.5 C 1	
		C 2 C 25	
	Question 4: There is a group of 4 people. If they group in a group of 2, 3 or 4, how many different groups can be formed?	C 11 C 60	
		C 10 C 66	
			Submit

Figure 43: Page 42

	Remaining T
PART II - Section 2	
Congratulations! You completed the low and medium difficulty questions.	
Please provide a guess of how many of the 4 problems you solved correctly in this part.	1
Plasa multi a spara of her nor references to this part lands folders to the antimizers of the ther participants with as also complete this basis that a same free as you. That is, then compare the number of posterios you collect controls in this parts the number scheet controls by other participants in the lab, when would your rand?	Botton 5% of petrimony (at least 55% of all participant) in the lap performed after them (ad)     Botton 5% of petrimony (at least 55% of all participant) in the lap performed after them (ad)     Botton 4% of an extension (at least 55% of all participant) in the lap performed after them (ad)     Che the data (at least 45% of all participant) in the lap performed after them (ad)     Che the data (at least 45% of all participant) in the lap performed after them (ad)     To p44% of petformed (at least 55% of all participant) in the lap performed ance the than (ad)     To p54% of petformed (at least 55% of all participant) in the lap performance ances them (ad)     To p54% of petformed (at least 55% of all participant) in the lap performed ances them (ad)     To p54% of petformed (at least 55% of all participant) in the lap performs and ences than (ad)
Passa proble a gass of how your pediomaxis in this part reveal rotation to the performance of the sites a device and each or and a solar state of the same time a you. That is, if we compare the number of problems you solved correctly in this part to the number colved correctly by other participants in the lab, where would you sam?	C Botton 20% of performers (all least 0%% of all participants in the lab performed better than I day) C Botton 40% of performers (all least 0%% of all participants in the lab performed better than I dd; and I least 40% of all participants in the lab performed better than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performers (all least 0% of all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than
Plase mode a pass of her normal sector and to get rand market to the performance of the other performance and as comparing the base of her same free an you. That is, the compare the number of posteriou you soled controlly in this parts the number soled controlly by other participants in the lab, where would you rand?	C Botton 20% of performers (all least 0%% of all participants in the lab performed better than I day) C Botton 40% of performers (all least 0%% of all participants in the lab performed better than I dd; and I least 40% of all participants in the lab performed better than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performers (all least 0% of all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than
Plasa provide a pass of new nurcedimenses in this part (send outside 1) the performance of the other participants who are also comparing this bank does not you. That is, the compare the number of proteims you solved controlly in this part to the number solved controlly for their participants in the lab, where would now rand?	C Botton 20% of performers (all least 0%% of all participants in the lab performed better than I day) C Botton 40% of performers (all least 0%% of all participants in the lab performed better than I dd; and I least 40% of all participants in the lab performed better than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed set than I dd; and I least 40% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performers (all least 0% of all least 0% of all participants in the lab performed sets than I dd; C To 20% of performers (all least 0% of all participants in the lab performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than I dd; C To 20% of performed sets than

Figure 44: Page 43

		Remaining Time (sec): 473
PART II - Section 2		
In In Solving Quantitative Problems, you will find some proble		
Now solve 4 high difficulty questions? Please note that your a	answers in this session will determine your bonus in Section 2.	
Sass1 Togeth esprés:	ion. L New payof clubs (A and B) have a members: A has a members and B has b members. Some of the persons are members of both sports clubs. Which of the following solard describes have many persons are members in only one of the bes sports clubs?	$ \begin{array}{c} & x+a \cdot b \\ & \frown & (2a+b) - 2x \\ & \frown & 2a - 2x \\ & \frown & 2x - (a+b) \end{array} $
terms o	ten 2. In Manual entering with survey local Kontanas 1 of strange Jaco Mana pours survey Jaco Hom Tho Lotter X with the weep's obtain Y with Z Bothe Y in half as log as bothe X (in of universal, 4 Me Hom generation, totar X with cardanas 5 of strange jaco. Yother Y is 15 this of snape jaco, and softe 2 in half will dramge jaco. Mana Boothe Z with them the strate is all the management of strange jaco. The Y is 15 this of snape jaco, and softe 2 in half will dramge jaco. Mana Boothe Z with them the strate is all the management of strange jaco. The Y is 15 this of snape jaco, and softe 2 in half will dramge jaco. Mana Boothe Z with them the strate is all the management of strategies and the strategies and	C 0.11 C 0.31 C 0.41 C 0.61
Question Letus	an X. Stranme had P is the point (0, -1) and O is the point (0, 2). Find the point on the time PO in the Cathesian coordinate system that is have as for thom P as them O.	( (3, 1) ( (2, 1) ( (2, -1) ( (15, 05)
meters	The control of the second of t	C 110 mm C 125 mm C 120 mm C 135 mm
		Submit

Figure 45: Page 44

	Remaining
PART II - Section 2	
Congratulations! You completed the high difficulty questions.	
Please provide a guess of how many of the 4 problems you solved correctly in this part.	
Prease provide a guess of now many of the + processing connectly in this part.	
Pause provide a gass of two your certofmance in this part (and of video is the performance of the other participants in the also competing the lask of the same time as you. There, it we compare the number of problems you solved controlly in this part to the number solved controlly of the participants in the lask, where would you rand?	<ul> <li>Ditten MV spectrumers (all kalls DV all all addispatin in the lasy adversed batter hain 4.0).</li> <li>Ditten 20 MV adjuster (all kalls DV all all addispatin in the lasy adversed batter hain 4.0).</li> <li>Ditten 20 MV adjuster (all kalls DV all all addispatin in the lasy adversed batter hain 4.00).</li> <li>Ditten 20 MV adjuster (all kalls DV all all addispatin in the lasy adversed batter hain 4.00).</li> <li>Ditten 20 MV adjuster (all kalls DV all all kalls DV adjuster (all kalls DV adjuster (all kalls DV adjuster)).</li> <li>Ditten 20 MV adjuster (all kalls DV adjuster) adjuster (all kalls DV adjuster).</li> <li>Ditten 20 MV adjuster (all kalls DV adjuster) adjuster (all kalls DV adjuster).</li> <li>Ditten 20 MV adjuster (all kalls DV adjuster) adjuster (all kalls DV adjuster).</li> <li>Ditten 20 MV adjuster 20 MV adjuster).</li> <li>Ditten 20 MV adjuster 20 MV adjuster 20 MV adjuster).</li> <li>Ditten 20 MV adjuster 20 MV adjuster 20 MV adjuster).</li> <li>Ditten 20 MV adjuster 20 MV adjuster 20 MV adjuster).</li> <li>Ditten 20 MV adjuster).</li> <li>Ditten 20 MV adjuster).</li> <li>Ditten 20 MV a</li></ul>
	oc

Figure 46: Page 45 (Waitingscreen)



Figure 47: Page 46

r	Remaining Time (sec) 16
Your tomus is calculated based on Part II and Decision 3.	

Figure 48: Page 47 (waitingscreen)



Figure 49: Page 48

QUESTIONNAIRE			
How wo How wa	add you rale your willingness to take risks in your life decisions? You you rale your willingness to take risks in the areas of your occupation? add you rale your willingness to take risks in financial decisions? add you rale your willingness to take risks in the areas of your health?		
Compet	tition brings the best out of me	1 (not at all like me) CCCCC	7 (search the res) C C C C
			Continue

Figure 50: Page 49

Please state the extent to which the following statements apply to you. I see myself as someone who								
		1 (does n	it apply to n	ve at all)		11	(applies to	me periodity)
	Is original, comes up with new ideas	С	С	C	С	С	C	С
	Values artistic experiences	C	С	C	C	С	С	C
	Has an active imagination	С	С	C	С	С	C	С
	Does a thorough job	с	С	C	С	С	С	C
	Does things effectively and efficiently	C	C	C	C	C	C	C
	Tends to be lazy	С	С	C	C	С	C	С
	Is communicative, talkative	C	С	C	C	C	C	C
	Is outgoing, sociable	С	С	C	С	С	C	С
	Is reserved	С	С	C	C	C	C	с
	Has a forgiving nature	C	C	С	С	С	С	С
	Is considerate and kind to others	c	С	C	C	С	C	С
	Is sometimes somewhat rude to others	C	С	C	С	С	C	С
	Worries a lot	С	C	C	C	C	C	С
	Gets nervous easily	C	C	C	C	C	C	С
	Is relaxed, handles stress well	C	C	C	C	C	C	C
							Con	tinue

Figure 51: Page 50

Please answer the following questions	:	
	What is your gender?	C Make
	Where would you put yourself on this scale?	1 (wg metaline) 7 (wg fensione) C C C C C C C
	What is your age?	
	What is your marital status?	C Stype C Back Construction C Davids Construction C Million C Million C Million
	What is your religion?	C Padade C adade C adata C Adata C Adata C Mangan C Romagan C Star
	What is your primary language spoken in your childhood home?	C Ganata C Tarata C Tarata C Dataset C Pata C Pata
	What is your employment status?	C Enclosed altern (4) learns were) C Enclosed and the closed were) C Usergest closed were (1) learns (1) C Usergest closed were) C Usergest (1) C Userges
	What is the highest level of education that you have completed?	C htmp://doil/ C High.idoil C High.idoil Reporter Seyne C PID degree
	What is the highest level of education that your mother has completed?	C Proposition C Proposition C Boards dyses C Boards dyses C Rodo dyses
	What is the highest level of education that your father has completed?	C Perse shoul C Hess solution C Hess solution and the second seco
		(mm)

Figure 52: Page 51

Please answer the following questions:	
What is the program that you are currently enrolled to?	Andregation     Andregati
If <u>Other</u> please specify:	
	Continue

Figure 53: Page 52

Where do you think your performance in your field of study lay compared to your classmates?	C Bathern 19% C Bathern 25% C Bathern 45% C Bat
Do you enjoy studying in your field? If I had the chance, I would change my field of study. I regret studying in my field of study.	1980-0000 7564 8 401 
Where do you foresee your highest future income compared to your classmates?	<ul> <li>Galaxie 1996</li> <li>Galaxie 29%</li> <li>Galaxie 29%</li> <li>Galaxie 29%</li> <li>Galaxie 20%</li> <li>Galaxie 20%</li> <li>Galaxie 20%</li> <li>Galaxie 20%</li> </ul>
	Controu

Please answer the following questions:			
	On a scale of 7, how difficult did you find the Solving Quantitative Problems task? On a scale of 7, how difficult did you find the Recognising Linguistic Structures task?	1 (wy diffical) CCCCC CCCC	
			Continue

Figure 54: Page 53

Figure 55: Page 54

Please answer the following questions	:		
	On a scale of 7, how much did you enjoy working on the Solving Quantitative Problems task?	1() dd nd angy stall) 7) arjynd wy mush) C C C C C C C C C C C C C C C	
	On a scale of 7, how much did you enjoy working on the Recognising Linguistic Structures task?		
		Continue	

Please answer the following questions	:		
	On a scalar of 7, what is the stereotype associated with the Solving Quantitative Problems task? On a scale of 7, what is the stereotype associated with the Recognising Linguistic Structures task?		
		Continue	

Figure 56: Page 55

Figure 57: Page 56

Please answer the following questions:		
	How many participants of today's experiment do you know by name?	
	Was there any moment that you didn't understand what you need to do in the experiment? If yes, please specify.	
	Have you ever solved TestAS questions before this experiment?	C Yes C No
	Can we rely on your answers to this questionnaire? Please answer using the scale.	1 (centrely at all) 7 (centrely at all) CCCCCCCC
		Continue

Figure 58: Page 57

Tranis for participating. Your total earning is: 11

## A.3.2 Experiment 2

Figure 59: Page 1

	Remaining Time [sec] 28
Welcome to the study!	
This is an experiment in economic decision making, funded by the Collaborative Research Center and Humboldt University (CRC).	
The entire study should take no longer than 40 minutes.	
The study is designed to understand how people make economic decisions. You must be at least 18 years old to participate in this study.	
* Your responses will be kept anonymous and confidential.	
* For your participation, you will receive 6 euros show up fee. In the course of the experiment, you can earn additional money based on your decisions. You will be given further instructions how you can earn extra money.	
* During the experiment, you are not allowed to use electronic devices or communicate with other participants. Please use only the programs and functions intended for the experiment. Please do not talk to the other participants. If you have a question, please raise your hand. We will then come to you and answer your question silently. Please do not ask your questions out loud under any circumstances. If the question is relevant to all participants, we will repeat it out loud and answer it. If you violate these rules, we will have to exclude you from the experiment and the payout.	
* If you have any questions about this study, then you can email Humboldt University doctoral student Müge Süer (sueermue@hu-berlin.de).	
The following pages explain the experiment in detail. Please read them carefully.	Next

Figure 60: Page 2

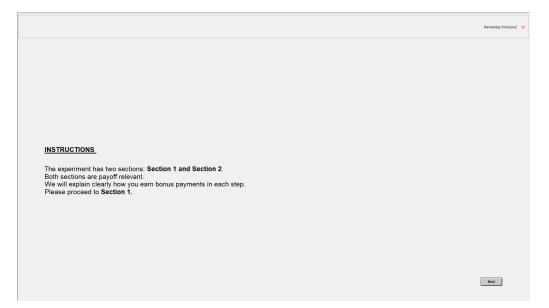


Figure 61: Page 3

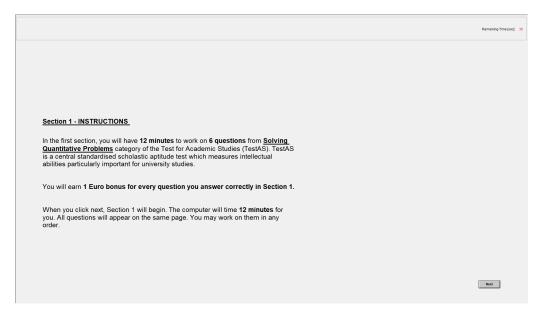


Figure 62: Page 4

			Remaining
Section 1			
In Solving Quantitative Problem	s, you will find some problems which you have to solve.		
You will now solve 6 high difficu	Ity questions Please note that you will earn 1 Euro bonus per question you answer correctly.		
	Question 1:	C 5	
	Assuming that (Sa+b)*(b-1)=17, what does a*b (a and b are positive integers)?	C 6 C 8 C 10	
		(* 10 	
	Question 2: Alice is a years old. What is the sum of her ages after b+a additional years and before b-a additional years (a>b)?	⊂ a+b ⊂ 2a	
		C 4a C 4b	
	Question 3:	C 5/5	
	The average of 1/2, 4/3, 1 1/6, and A is 5/4. Find A.	C 9/5 C 2	
		C 7/3	
	Question 4: A vocal couch must choose three amateurs from eight singers. In how many different ways can he choose the amateurs?	C 336 C 112	
		C 64 C 56	
	Question 5:	C 12	
	A small foundation gives a total of 960 Euros per month in scholarships to students, distributed equally among the recipients. Four students lose their qualification for the scholarship and will not receive a scholarship starting this month. The amount of money available as a result will be shared among the other students equally. In this way, the other students will get 40 Euros more per month. How many students were originally given coholarships?	C 8 C 14	
	ges to Soliton more per monitor from milling anderson mere singlinging green associational angle i	C 10	
	Question 6: The following equation is given: R(2e+3)+B. Which of the following terms correctly reflect the value of e?	C 218-15 C (*38)28	
		C (8-15 C (-38)*0.5	
			Submit

Figure 63: Page 5

	Remaining Time (sec)
Section 1	
Congratulations! You completed Section 1.	
Please provide a guess of how many of the 8 problems you solved correctly in the first section. (Please enter a number between 0 and 6)	
Please provide a guess of how your performance in the first section ranked relative to the performance of the other participants who are also completing this task at the same time a participants in the lab, where would you rank?	s you. That is, if we compare the number of problems you solved correctly in Section 1 to the number solved correctly by other
	○ Bolton 3V spectromers (Intel 10V all participants in the lop spectrum call beam hand (d) ○ Bolton 3V spectromers (Intel 10V all participants in the lop spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the spectrum call beam of the spectrum call beam hand (d) ○ Bolton 3V spectrum call beam of the sp
	OK

Figure 64: Page 6

	Remaining Time (sec)
Section 1	
Attention! Please answer now based on your future expectations.	
Please provide a guess of new many problems you brink you would solve controlly if you were given 8 NEW QUESTIONS on the same category and efficulty level as charles 1: 1: 4: 9 (b) cflicing (b) constants of the category and efficient association).	
Please provide a guess of how your performance in these 6 NEW QUE STICKS would rank relative to the performance of the other participants. That is, if we compare	the number of problems you solved connectly in Section 11b he number solved connectly by other participants in the bib, where would your mark? <sup>C</sup> Bedom 5% of participants (bits of all participants in the bib would perform better than 1 would)
	Colocito do presidente a interación de la participatión in the la voció prémi termi terración Díbono 2014 o faracterización de la participatión in the la voció prémi terter inter in evoluí) Díbono 2014 o faracterización de la participatión in the la voció prémi terter tinha in evoluí) Díbono 2014 o faracterización de la participatión in the la voció prémi terteri tinha in evoluí) Díbono 2014 o faracterización de la participatión de la voció prémi terteri tinha invoció) Díbono 2014 o faracterización de la voció prémi terte la voció prémi terteri terte la voció prémi terteri terte la voció prémi terterización de la voción de la v
	<ul> <li>The 2 hort operationes (all leads 50% of all paintipats in the lab voice persons) house that it would)</li> <li>The 5% of performers (all leads 50% of all paintipats) in the lab would perform works than it would)</li> </ul>
	ox
	UK

Figure 65: Page 7

	Remaining Time (sec)
Section 1	
Attention! Please answer now based on <b>your future expectations</b> .	
Plase provide sparse of how many problems top think you would solve correctly if you were given 3 LOW, 3 MEDUNE DIFFICULTY QUESTICNES (8 questions in the same calegory as Section 1. but methigs as difficult than Section 1, easy being less difficult than medium). (Please entire a number between 0 and 6)	
Please provide a guess of how your performance in these 3 LOW, 3 MEDIUM DIFFICULTY QUESTIONS would rank relative to the performance of the other participant where would your rank?	s. That is, if we compare the number of problems you solved correctly in Section 1 to the number solved correctly by other participants in the lab,
	C Bottom 3% of performence (a) each of all participants in the law would perform beef than in would) C Bottom 3% of performence (a) least 6% of all participants in the law would perform beef than in would) C Bottom 4% of performence (a) least 6% of all participants in the law would perform beef than in would) C In the midle (a) least 4% would perform beef than in would)
	more minutes (an example of an approximation of an example of an exam
	ок

Figure 66: Page 8

	Remaining Time (sec) 30
Section 2 - INSTRUCTIONS	
You have now been assigned to <b>a group of two with another participant in the</b> <b>laboratory</b> . In this part of the experiment, you and your partner will have a chance to together generate extra bonus <b>by correctly answering new questions</b> in the same category you were tested on, i.e. Solving Quantitative Problems.	
Before solving these new questions, you are expected to make three decisions. These decisions will determine your responsibilities in your group!	
For each decision, there will be two different roles in your group. We will call these the advanced job and the novice job . In each decision, you will state your willingness to apply for the advanced job for	
your group. For each decision, only one member of your group will be hired for the advanced job based on the reported willingness to apply.	
You will be informed further about the tasks that you will be responsible from in each job.	
Please proceed to learn how it works.	
	Next
	You have now been assigned to a group of two with another participant in the laboratory. In this part of the experiment, you and your partner will have a chance to together generate extra bonus by correctly answering new questions in the same category you were tested on, i.e. Solving Quantitative Problems. Before solving these new questions, you are expected to make three decisions. These decisions will determine your responsibilities in your group! For each decision, there will be two different roles in your group. We will call these the advanced job and the novice job. In each decision, you will state your willingness to apply for the advanced job for your group. For each decision, noly one member of your group will be hired for the advanced job based on the reported willingness to apply. The other will be hired for the novice job. You will be informed further about the tasks that you will be responsible from in each job.

Figure 67: Page 9

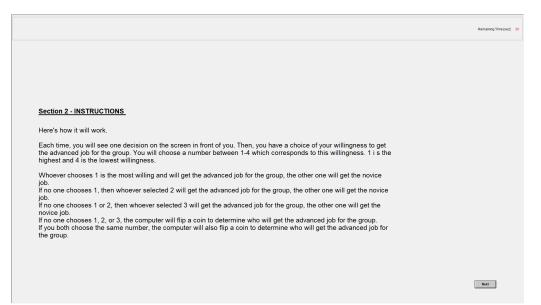


Figure 68: Page 10

	Remaining Time [sec]
Section 2 - INSTRUCTIONS	
To summarize: Your willingness to apply will determine the job allocation in your group!	
- If you select 1, and if the other person in your group does not select 1, you will get the advanced job for your	
group, your partner will get the novice job. - If you select 2, and if the other person in your group did not select 1 or 2, you will get the advanced job for your	
group, your partner will get the novice job. But, if the other person selected 1, he or she will get the advanced job instead and you will get the novice job.	
- If you select 3, and if the other person in your group did not select 1, 2, or 3, you will get the advanced job for	
your group, your partner will get the novice job. But, if the other person selected 1 or 2, he or she will get the advanced job instead and you will get the novice job.	
<ul> <li>If you select 4, you will only get the advanced job if your other group member also selects 4 and the computer randomly chooses you to get it.</li> </ul>	
- The computer will also randomly determine who gets which job if you both choose the same number.	
Here is a quick quiz to make sure you understand how this works.	
Question: If you select 2 and other person in your group selects 1, who will pat the advanced job for the group? ( The computer will randomly choose one of you. ( The other person will get the advanced job.	
C I will get the advanced job.	
	Submit

Figure 69: Page 11

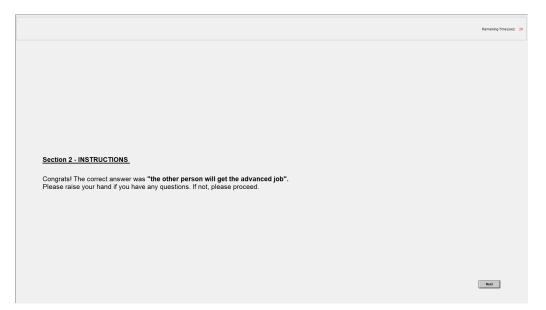


Figure 70: Page 12

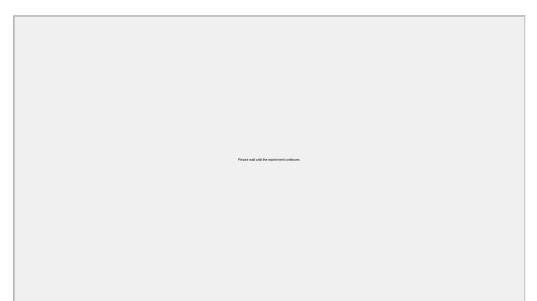


Figure 71: Page 13

	Remaining Time (sec): 27
Section 2 - INSTRUCTIONS	
After you have made your decisions about your willingness to get the advanced job for your group, we will use your answers to determine who will get the advanced job for each decision for your group.	
One of these three decisions will be picked randomly.	
For the selected decision, your group earnings will be calculated as the sum of your and your partner's earnings.	
The group earning will be shared equally between you and your partner .	
The one with the novice job will additionally earn a <b>novice bonus of 2 Euros</b> . The one with the advanced job will additionally earn a <b>promotion bonus of 4 Euros</b> .	
Therefore, be sure to choose wisely.	
You will learn your total earnings, and which decision your earnings were based on at the end of the experiment.	
Now, if you are ready, please proceed with the decisions.	
	Next

Figure 72: Page 14

Section 2         Please read the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job.         Please nee that the advanced job advays contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro.         Please note that the advanced job advays contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro.         Prease note that the advanced job advanced job holder gains an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros.         The advanced job and the novice job might have the same tasks but might also have different tasks.         Worou could be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if your partner solves more questions than you.         Decision 1:         Novice Job Definition:         Quest Job will be half of the group earnings puts the novice bonus;         The final earning will be half of the group earnings puts the novice bonus;         Choined Job Definition:         Bove 2 Jow, 2 medium difficulty (total 4) Solving Quantitative Problems questions & an extra 2 Euros novice bonus;         Outcomed Job Definition:         Bove 2 Jow, 2 medium difficulty (total 4) Solving Quantitative Problems questions;         Chromed Job Definition:         Bove 2 Jow, 2 medium difficulty (total 4) Solving Quantitative Problems questions;         Devins per correcity, answered question to the group earnings;	
Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros. The advanced job bonder pains an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros. The advanced job bonder gains an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros. The advanced job bonder the same tasks but might also have different tasks. Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if your partner solves more questions than you. Decision 1: Novice Job Definition: Solve 2 Low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus) Advanced Job Definition: Solve 2 Low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros provise bonus Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros Provise per correctly answered nuestion to the group earnings Earn an extra 4 Euros Provise per correctly answered nuestion to the group earnings Earn an extra 4 Euros Provise per correctly answered puestions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros Provise per correctly answered question to the group earnings Earn an extra 4 Euros Provise per correctly answered question to the group earnings Earn an extra 4 Euros Provise per correctly answered question to the group earnings Earn an extra 4 Euros Provise per correctly answered question to the group earnings Earn an extra 4 Euros Provise per correctly a	Remaining Time (sec)
Please need the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job. Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros. The advanced job and the novice job might have the same tasks but might also have different tasks. Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if your partner solves more questions than you. Decision 1: Novice Job Definition: Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus) Advanced Job Definition: Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros per correctly answered puestions to perform a guestions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros percorrectly answered puestion to the group earnings Earn an extra 4 Euros percorrectly answered puestion to the group earnings Earn an extra 4 Euros percorrectly answered puestion to the group earnings Earn an extra 4 Euros percorrectly answered puestion to the group earnings	
Please need the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job. Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros. The advanced job and the novice job might have the same tasks but might also have different tasks. Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if your partner solves more questions than you. Decision 1: Novice Job Definition: Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus) Advanced Job Definition: Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros per correctly answered puestions to perform a guestions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros percorrectly answered puestion to the group earnings Earn an extra 4 Euros percorrectly answered puestion to the group earnings Earn an extra 4 Euros percorrectly answered puestion to the group earnings Earn an extra 4 Euros percorrectly answered puestion to the group earnings	
Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an additional 4 Euros personal bonus, whereas the novice job bright 2 Euros. The advanced job and the novice job might have the same tasks but might also have different tasks. Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if your partner solves more questions than you. Decision 1: Novice Job Definition: Solve 2 Low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earning neutra 2 Euros novice bonus (The final earning will be haif of the group earnings plus the novice bonus) Advanced Job Definition: Solve 2 Low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earning neutra 2 Euros novice bonus (The final earning will be haif of the group earnings plus the novice bonus) Advanced Job Definition: Solve 2 Now, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earning neutra 2 Euros novice bonus	
Novice Job Definition:         Solve Z low, 2 medium difficulty (total 4). Solving Quantitative Problems questions         Contribute 1 Euro per correctly answered question to the group earnings         Earn an extra 2 Euros novice bonus         (The final earning will be half of the group earnings plus the novice bonus)         Advanced Job Definition:         Solve 2 Jow, 2 medium difficulty (total 4). Solving Quantitative Problems questions         Contribute 4 Euros per correctly answered question to the group earnings         Earn an extra 4 Euros periodino bonus	ntribules 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. ns an additional 4 Euros personal bonus, whereas the novice job holder 2 Euros. nave the same tasks but might also have different tasks.
Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus) Advanced Job Definition: Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros promotion bonus	
Solve 2 low, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros promotion bonus	red question to the group earnings
	rered question to the group earnings
My willingness to goly for the advanced job for our group in this decision: C 1 C 2 C 3 C 4 (f being the higher willingness to goly)	
. Not	Not

Figure 73: Page 15

	Remaining Time [sec]: 60
Section 2	
Please read the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job. Please note that the advanced job always contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an additional 4 Euros personal bonny, whereas the novice job holder 2 Euros. The advanced job and the novice job might have the same tasks but might also have different tasks. Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if you partner solves more questions than you.	;
Decision 2:	
Novice Job Definition: Solve 2 Iow, 2 medium difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus)	
Advanced Job Definition: Solve 4 high difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn are extra 4 Euros promotion bonus (The final earning will be half of the group earnings plus the promotion bonus)	
My sullingueses to apply for the subsected job for our groups in this decision: C 1 C 2 C 3 C 4 (1 being the highest willingueses to apply)	
	Next

Figure 74: Page 16

	Remaining Time (sec) 6
Section 2	
Please read the job definitions carefully and state your willingness (1-4) in order to apply for the advanced job. Please note that the advanced job advays contributes 4 Euros per correct answer to the group earnings, whereas the novice job 1 Euro. Please note that the advanced job holder gains an advitional 4 Euros personal bonus, whereas the novice bo holder 2 Euros. The advanced job and the novice job <b>night have the same tasks but might also have different tasks.</b> Your group earnings would be higher if the better performer in your group gets the advanced job. Hence, also your individual earnings may be higher by taking the novice job if your partner solves more questions than you.	
Decision 3:	
Novice Job Definition: Solve 4 high difficulty (total 4) Solving Quantitative Problems questions Contribute 1 Euro per correctly answered question to the group earnings Earn an extra 2 Euros novice bonus (The final earning will be half of the group earnings plus the novice bonus)	
Advanced Job Definition: Solve 4 high difficulty (total 4) Solving Quantitative Problems questions Contribute 4 Euros per correctly answered question to the group earnings Earn an extra 4 Euros promotion bonus (The final earning will be half of the group earnings plus the promotion bonus)	
My willingenesis to ktyly for the advocaci-job for our group in this decision: C 1 C 2 C 3 C 4 (1 being the highest willingenesis to apply)	
	Next

Figure 75: Page 17

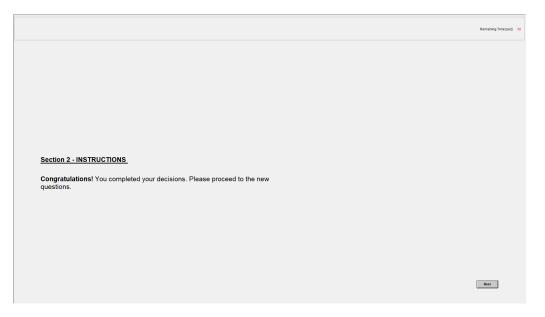


Figure 76: Page 18

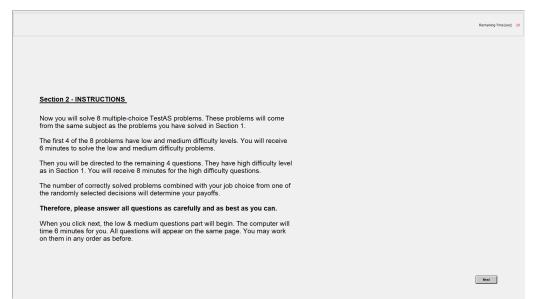


Figure 77: Page 19

			Remaining Tim
Section 2			
Second 2			
in in Solving Quantitative Problems, you will find s	me problems which you have to solve.		
Now solve 2 low difficulty and 2 medium difficulty	questions! Please note that your answers in this session will determine your bonus in Section 2.		
	Question 1:	C 195	
	A working day is 8 hours long and a working week is five days long. A woman receives a wage of 25 Euros per hour. If she works for longer than 8 hours per day she receives 30 Euros for each extra hour she works. In 4 weeks, she earns 4,600 Euros. How many hours did she work altogether in those four weeks?	C 175	
		C 160	
	Question 2:	C 2	
	Description 2: + to the state of the state o	♥ C 3 C 4	
	Lisa, who is 160 cm tall, is standing 170 cm from her brother Eric, who is 180 cm tall. They begin to walk toward each other. If one step equals 1/10 of their respective heights, after how	V C 3	
	Lia, who is 150 cm kut is standing 170 cm timm for tomber Edic, who is 180 cm tail. They begin to wait toward each other, if one stop equals 110 of their respective heights, after how many adaption will be meet each other?	<pre></pre>	
	Liss, who is 40 min kit is studied of 20 m from her trether Eric, who is 150 cm bit. They begin to wait toward each other. If one stop equals 110 of their respective hugets, after how many begin to will her media cuber?	V C 3 C 6 C 5 C 05 C 2	
	Lia, who is 150 cm kut is standing 170 cm timm for tomber Edic, who is 180 cm tail. They begin to wait toward each other, if one stop equals 110 of their respective heights, after how many adaption will be meet each other?	* C 3 C 4 C 5 C 05 C 1	
	Lia, who is 150 cm kut is standing 170 cm timm for tomber Edic, who is 180 cm tail. They begin to wait toward each other, if one stop equals 110 of their respective heights, after how many adaption will be meet each other?	<pre>% C 3 C 4 C 5 C 0.5 C 2 C 2 C 2 C 1 C 1 C 6 C 6 C 6 C 6 C 6 C 6 C 6 C 6 C 6 C 6</pre>	
	Lia, and is 150 mB k, is stading 170 mB m kristeler Elic, who is 180 cm tal. They legis to wait toward such shell if line any equate s110 of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and the respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and the respective heights, after how main any data will be meet and the respective heights. The respective heights after h	<pre>% C 3</pre>	
	Lia, and is 150 mB k, is stading 170 mB m kristeler Elic, who is 180 cm tal. They legis to wait toward such shell if line any equate s110 of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and the respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and the respective heights, after how main any data will be meet and the respective heights. The respective heights after h	♥ C 3 C 4 C 5 C 1 C 2 C 25 C 11 C 25 C 11 C 60 C 10 C 10 C 10 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 1 C 2 C 1 C 1 C 1 C 2 C 1 C 1 C 2 C 1 C 1 C 2 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	
	Lia, and is 150 mB k, is stading 170 mB m kristeler Elic, who is 180 cm tal. They legis to wait toward such shell if line any equate s110 of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and the respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and the respective heights, after how main any data will be meet and the respective heights. The respective heights after h	♥ C 3 C 4 C 5 C 1 C 2 C 25 C 11 C 25 C 11 C 60 C 10 C 10 C 10 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 1 C 2 C 1 C 1 C 1 C 2 C 1 C 1 C 2 C 1 C 1 C 2 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	
	Lia, and is 150 mB k, is stading 170 mB m kristeler Elic, who is 180 cm tal. They legis to wait toward such shell if line any equate s110 of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and the respective heights, after how main any data will be meet and state of their respective heights, after how main any data will be meet and the respective heights, after how main any data will be meet and the respective heights. The respective heights after h	♥ C 3 C 4 C 5 C 1 C 2 C 25 C 11 C 25 C 11 C 60 C 10 C 10 C 10 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 2 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 1 C 1 C 2 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	

Figure 78: Page 20

	Remaining Time (sec) 60
0	
Section 2 Congratulations! You completed the low and medium difficulty questions.	
Plase profe a guess of how many of the 4 problems you solved correctly in this part.	1
Plass provide a gains of their your performance in this participant of the performance of the other participants who are also comparing the last of the same time as you. That is, their compare the number of problems you advad conself in this part to the number solved conselfy by other participants in the lab, where would you pan?	C Botton 5% of performers (all last 05% of all participants in the lab performed setter han 1.6.0. C Botton 5% of performers (all last 05% of all participants in the lab performed setter han 1.6.0. C Botton 4% of performers (all last 0% of all participants in the lab performed setter han 1.6.0. C In the mode (all lasts 4% of all participants in the lab performed setter han 1.6.0. and all last 1.6.0. and 1.6.0. C Top 40% of performers (all last 0% of all participants in the lab performed setter han 1.6.0. C Top 40% of performers (all last 0% of all participants in the lab performed setter han 1.6.0. C Top 5% of performers (all last 10% of all participants in the lab performed setters han 1.6.0. C Top 5% of performers (all last 10% of all participants in the lab performed setters han 1.6.0.
	CK.

Figure 79: Page 21

		Remaining T
Section 2		
In In Solving Quantitative Problems, you will find some p	roblems which you have to solve.	
Now solve 4 high difficulty questions! Please note that y	our answers in this session will determine your bonus in Section 2.	
To	uestion 1: gether, two sports clubs (A and B) have x members; A has a members and B has b members. Some of the persons are members of both sports clubs. Which of the following	C x+a-b C 2(a+b)-2x
ex	pressions describes how many persons are members in only one of the two sports clubs?	( ab - 2x ( 2x - (a + b)
٩	uestion 2. Det Kind and reliable with orrange juice. It contains 11 of orrange juice. Maria pours orrange juice from this bottle X into two empty bottles Y and Z. Bottle Y is half as big as bottle X (into the second	C 0.11
ter	bothe x is the anthrey with carage jusce. It contrains 1 i of change jusce, it can a pours change jusce from this contre x into two entropy openes Y and 2, isother Y is natria s to g as contra x (in more victive). A three filling openation, contra x sill contrains 0 i of change jusce; bother Y is 15 full of change jusce; bother Y is 15 full of change jusce; and bother Z is half-buil of change jusce. Maria fills bother Z with after until the bother is full. How much liquid does bother Z contain?	C 0.31 C 0.41 C 0.61
		C (3,1)
<u>Ga</u> Le	uestion 3: It us assume that P is the point (0, -1) and Q is the point (3, 2). Find the point on the Ine PQ in the Cartesian coordinate system that is twice as far from P as from Q.	C (3,1) C (2,1) C (2,-1)
		C (1.5, 0.5)
A	uestion 4: swimming pool has a length of 10m, a width of 8m, and a height of 3m. The pool is full of water and is supposed to be emptied completely. It is drained with a speed of 3 cubic	C 110 min C 125 min
m	eters per mixule. Because of a kroken water pipe, additional water is flowing into the pool at a speed of 270 cubic meters per hour for 30 minutes while it is being emptied. How any minutes does it take to empty the pool?	C 130 min C 135 min
m		
m		
m		
m		Submit

Figure 80: Page 22

	Remaining Tim
Section 2	
Congratulations! You completed the high difficulty questions.	
Please provide a guess of how many of the 4 problems you solved correctly in this part.	1
Please provide a guess of flow your performance in this particularies for the particularies of the other participants who are also completing the task at the same time as our Thanks. If we compare the number of proteining you solved correctly in this participants in the number solved correctly by this participants in the lost, where would you rain?	Bottom 5% of performance (all head 5% of all participants in the allo performed before than 1.6d)     Bottom 5% of performance (all head 5% of all participants in the allo performed before than 1.6d)     Construction of the second seco
	ок

Figure 81: Page 23



Figure 82: Page 24

Roma	ning Time (sec) 16
Your bonus is calculated based on Chroson 2	
Train units to subcateru usero un U-pusoria z. Yao wili love proceed to be questionnam.	

Figure 83: Page 25

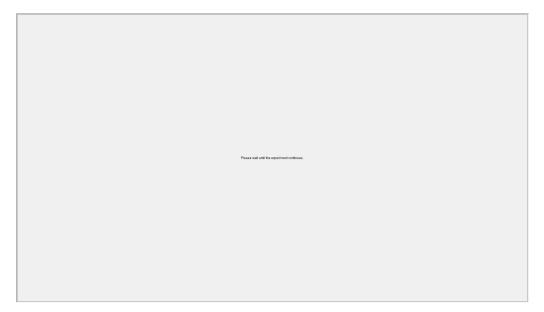


Figure 84: Page 26

QUESTIONNAIRE		
		1 (fully unrealing to take risk) 11 (fully willing to take risk)
	How would you rate your willingness to take risks in your life decisions?	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	How would you rate your willingness to take risks in the areas of your occupation?	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	How would you rate your willingness to take risks in financial decisions?	
	How would you rate your willingness to take risks in the areas of your health?	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
		1 (not at all like me) 7 (exactly like me)
	Competition brings the best out of me	
	Competition brings the best out of the	
		Continue

Figure 85: Page 27

s as an active importances       C		1 (di to m	es not : e at all)	apply		11	1 (applia	es to me perfectly)				
Values article reportingonals       C       C       C       C       C         Has an active mignation       C       C       C       C       C       C         Does a thorough pb       C       C       C       C       C       C       C         Does things efficiently       C       C       C       C       C       C       C         Does things efficiently       C       C       C       C       C       C       C         Does things efficiently       C       C       C       C       C       C       C         Tends to be law;       C       C       C       C       C       C       C         Is communicable, tatative       C       C       C       C       C       C       C         Is segning nature       C       C       C       C       C       C       C       C         Is considerate and kind to others       C       C       C       C       C       C       C       C         Is considerate and kind to others       C       C       C       C       C       C       C       C       C       C       C       C       C	Is original, comes up with new ideas				C	С						
Hase an active immigration       C       C       C       C         Does a finory of ficiently       C       C       C       C         Does hings effectably and efficiently       C       C       C       C         Tends to be lazy       C       C       C       C       C         Tends to be lazy       C       C       C       C       C         Is communicative, labeland       C       C       C       C       C         Is constrained and labeland       C       C       C       C       C         Is sensement rule to others       C       C       C       C       C         Is sensement rule to others       C       C       C       C       C         Gets mervous ensity       C       C       C       C       C         Is releaved, handles stress well       C       C       C       C       C		c	C	C	C	C	C	C				
Does things effectively and efficiently     C     C     C     C       Trinds to be kay     C     C     C     C       Is communicative, lakative     C     C     C     C       Is outgoing, sociable     C     C     C     C       Is relative     C     C     C     C       Is sometimes sometal rule to others     C     C     C       Is considered and rule to others     C     C     C       Is considered and rule to others     C     C     C       Is considered and rule to others     C     C     C       Is considered and rule to others     C     C     C       Is considered and rule to others     C     C     C       Is considered and rule to others     C     C     C       Is relaxed, handles stress well     C     C     C		c	C	с	C	C	C	C				
Does traings effectively and efficiently     C     C     C     C       Trind's to be laxy     C     C     C     C       Is consumminative, lakables     C     C     C     C       Is objective status     C     C     C     C       Is testimed     C     C     C     C       Is testimed     C     C     C     C       Is considered and land to others     C     C     C       Is considered and land to others     C     C     C       Worrise slot     C     C     C     C       Gets nervous easily     C     C     C     C       Is relead, handles stress well     C     C     C     C	Does a thorough job	c	C	C	C	С	C	C				
Tends to be kay       C       C       C       C         Is communicable, tablathee       C       C       C       C         Is ontpoing, sociable       C       C       C       C         Is senserved       C       C       C       C         Has a forging nature       C       C       C       C         Is considered and kind to others       C       C       C       C         Is considered and kind to others       C       C       C       C         Is considered and kind to others       C       C       C       C         Is considered and kind to others       C       C       C       C         Is considered and kind to others       C       C       C       C         Is considered and kind to others       C       C       C       C         Is natured, handles stress well       C       C       C       C       C		С	C	C	C	C	C	C				
Is considerable and kinds bothers C C C C C C C C C C C C C C C C C C C		с	C	С	C	C	C	C				
Is outgoing, sociable C C C C C C C C C C C C C C C C C C C		C	C	C	C	C	C	C				
Is reasoned C C C C C C C C C C C C C C C C C C C	Is outgoing, sociable	C	C	C	C	С	C	C				
Is considerate and kind to others Is relaxed, handles stress well Is relaxed, handles areas well Is relaxed, han		c	C	C	C	C	C	С				
Is considerate and kind to others Is relaxed, handles stress well Is relaxed, handles areas well Is relaxed, han	Has a forgiving nature	С	С	C	C	С	C	С				
Worries a lot C C C C C C Gets menous easily C C C C C C C Is relaxed, handles stress well C C C C C C C C C C C C C C C C C C		C	C	C	C	C	C	C				
Gets nervous easily CCCCCC Is relaxed, handles stress well CCCCC	Is sometimes somewhat rude to others	c	С	С	C	С	C	С				
Is relaxed, handles stress well	Worries a lot	С	С	C	C	С	C	С				
	Gets nervous easily	C	С	С	С	С	C	С				
	Is relaxed, handles stress well	C	C	C	C	C	C	C				

Figure 86: Page 28

Please answer the following questions:		
riease answer the following questions:		
	What is your gender?	C Nale C Fenile C Other
	Where would you put yourself on this scale?	1 (way manazina) 7 (way ferinina) C C C C C C C
	What is your age?	
	What is your marital status?	C Boole C Manifed C Manifed C Na Domest Patheory C Deviced S C Patheory C Deviced S C Patheory C Deviced S C Patheory C Deviced S C Deviced State Assess
	What is your religion?	C Polyakat C Sahaka C Sahaka C Hada C
	What is your primary language spoken in your childhood home?	C exema C exema C Turina C Contest C Double and C Palas C Palas
	What is your employment status?	C Respected Advects Annual annual Engligide Advects Annual annual C Unempiles Advects Annual Advects Advects Advects Advects Advects C Unempiles Advects Advects Advects Advects Advects Advects Advects C Advects Advects Advects Advects Advects Advects Advects Advects C Advects Advects Advects Advects Advects Advects Advects C Advects Advects Advects Advects Advects Advects Advects C Advects Advects Advects Advects Advects Advects Advects Advects C Advects Advects Advects Advects Advects Advects Advects Advects Advects C Advects Advects Advects Advects Advects Advects Advects Advects Advects C Advects Advects Advects Advects Advects Advects Advects Advects Advects C Advects Advects Advects Advects Advects Advects Advects Advects Advects Advects Advec
	What is the highest level of education that you have completed?	(° Permany school (° Hegh android) (° Bacheler degree (° Bacheler degree (° Pack degree
	What is the highest level of education that your mother has completed?	Permany school     Cege transmission     Add transmission     Add transmission     Add transmission     Add transmission     Add transmission     PhD degree

Figure 87: Page 29

What is your age?	
What is your marital status?	C Stadie Manuel C ha Donnete Antenning C Donnete C Wollmann C Wollmannet C Wollmannet C Wollmannet
What is your religion?	Pretestant     Carlosce     Carlosce     Ander     Ander     Ander     Ander     Ander     Ander     Ander     Conser     Other
What is your primary language spoken in your childhood home?	C General C Faralan C Faralan C Farana C Farana C Farana C Farana
What is your employment status?	Employed address (b) hours a week)     Employed address (b) hours a week)     Extrapting address (b) hours (b) week)     Extrapting address (b) hours (b) week)     Extrapting address (b) hours (b) hour
What is the highest level of education that you have completed?	(° Pelings stool) (° Peling hold gene (° Bedar Hold gene (° PED degree
What is the highest level of education that your mother has completed?	(° Penary stoted (° Pela stoted) (° Nature forgens (° PED degree
What is the highest level of education that your father has completed?	C Paras Salad - Mag Salad C Babaland C Babaland C PBD degree
	Cottinue

Figure 88: Page 30

Please answer the following questions:	
What is the program that you are currently enrolled to?	Arbitropiong     A
If <u>Other</u> please specify:	
	Continue

Figure 89: Page 31

Where do you think your performance in your field of study lay compared to your	C 8/dom 10%
classmates?	C defan 2% C defan 2% C 16 ge/m C 16 ge/m C 16 ge/m C 16 ge/m
Do you enjoy studying in your field?	1 (alexandred) 7 (not at all) C C C C C C C
If I had the chance, I would change my field of study.	
I regret studying in my field of study.	
regret studying in my neid or study.	
Where do you foresee your highest future income compared to your classmates?	C Beden 10% C Beden 20% C Beden 4% C Beden 4% C Beden
	C Top 10%
	Continue

Figure 90: Page 32

Please answer the following questions		
	On a scale of 7, how difficult did you find the Solving Quantitative Problems task?	7 (my may)
		Continue

Figure 91: Page 33

Please answer the following questions	:		
	On a scale of 7, how much did you enjoy working on the Solving Quantitative Problems lask?	1 () old not enjoy at all() C C C C	
			Cottine

Figure 92: Page 34

Please answer the following questions:				
	On a scale of 7, what is the stereotype associated with the Solving Quantitative Problems task?	1 (vey main-typed) C C C C	c	7 (may female-lepid) C C
			]	Continue

Figure 93: Page 35

Please answer the following questions:			
	How many participants of fodey's experiment do you know by name? Was there any moment that you didn't understand what you need to do in the experiment? If yes, please specify.		
	Have you over solved TestAS questions before this experiment?	C Yes C Ne	
	Can we rely on your answers to this questionnaire? Please answer using the scale.	1 (an Mir Hall) 7 (an Mir Hal) CCCCCCCCC	
		Continue	

Figure 94: Page 36

Thanks for participating. Your total earning is:	45