Supplemental Material / Online Appendix

Contract Breach with Overconfident Expectations: Experimental Evidence on Reference-Dependent Preferences

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A Selection into contracts

As described in Section 4 in the main paper, we allow for voluntary contract agreements. To check if selection biases our estimates, we do the following. First, we compare potential selection between the control and the anchor group. Second, we test if the sample who agreed on contracts differs from the whole sample, that is, all people that participated in our study, including those who did not agree on a contract.

Table I presents a comparison of contract offers and acceptances by experimental groups. The *share of offered contracts* corresponds to the share of sellers who offered a contract to the buyer. In total, 231 sellers offered and only 11 sellers did not offer a contract (6 in the control and 5 in the anchor treatment). The *relative number offered* is the average share of the sellers' estimated total number of produced goods that were offered to the buyers. The *share of accepted contracts* is the share of sellers' offers that were accepted by the buyers. We use a two-sided t-test to test for differences in the average relative offers and Pearson's chi-squared test for the shares of contracts offered and accepted. The p-values support the conclusion that the contract-related variables are similar across the two experimental groups.

TABLE I: Comparison of contract offers and acceptances by experimental groups

	control	anchor	p-value	N
share of offered contracts (%)	95.1	95.8	0.779	242
relative number offered (%) (full sample)	61.7	63.6	0.476	231
relative number offered (%) (data used)	61.6	65.3	0.232	172
share of accepted contracts (%)	81.9	81.7	0.975	186

Next, we check if there is selection into the sample by our main independent variable Under- /overestimation and other characteristics including, again, the anchor treatment, as well as Location (an indicator for the research site) and Female (an indicator which is 1 if the participant identifies as a woman and 0 otherwise). In Table II, we present results from a logistic regressions with robust standard errors and inclusion in the sample as the dependent variable. The dependent variable Sample is 1 when included in the sample (N=172) and 0 otherwise (N=70). We present odd ratios in this table. All estimates of the independent variables are insignificant. The regressions confirm that selection bias is, if at all, a minimal concern.

TABLE II: Determinants of inclusion in the sample

		Sample	
	(1)	(2)	(3)
$Under ext{-}/over estimation$	-0.025	-0.018	-0.021
	(0.031)	(0.033)	(0.034)
Anchor		-0.302	-0.239
		(0.301)	(0.301)
Location			0.422
			(0.306)
Female			0.228
			(0.340)
Constant	0.972***	1.107***	0.873***
	(0.174)	(0.215)	(0.247)
Observations	242	242	242
Pseudo \mathbb{R}^2	0.003	0.006	0.017

B Additional tables

TABLE III: Observations in contract stages and experimental groups by estimation type

	cor	rect estimate	und	underconfident		confident	Total	
Contracting								
total sellers	17	(7.02%)	59	(24.38%)	166	(68.60%)	242	(100%)
offers (seller)	16	(6.93%)	56	(24.24%)	159	(68.83%)	231	(100%)
acceptances (buyer)	16	(8.60%)	45	(24.19%)	125	(67.20%)	186	(100%)
data used in analysis ¹	14	(8.14%)	42	(24.42%)	116	(67.44%)	172	(100%)
$Experimental\ groups$								
control	11	(64.71%)	42	(71.19%)	68	(41.72%)	121	(50.63%)
control (data used) 1	10	(71.43%)	32	(76.19%)	49	(42.24%)	91	(52.91%)
anchor	6	(35.29%)	17	(28.81%)	95	(58.28%)	118	(49.37%)
anchor (data used) 1	4	(28.57%)	10	(23.81%)	67	(57.76%)	81	(47.09%)

¹ Our data set in the analysis comprises 172 observations in total (91 in the control and 81 in the anchor condition). Although we collected data from 186 sellers who accepted contracts, we had to drop 14 observations due to lost data from power outages in the field.

TABLE IV: 1st stage results for Table 3 in the main paper

	Under-/or	verestimation
	(2)	(4)
Anchor	2.681***	2.873***
	(0.662)	(0.727)
Shock	0.040	$0.667^{'}$
	(0.683)	(0.709)
Performance	-0.373***	-0.432***
	(0.087)	(0.093)
Constant	5.732	4.620
	(1.354)	(5.307)
	150	
Observations	172	172
R^2	0.181	0.254
Covariates ^{a}	No	Yes

Notes. Anchor is a dummy variable (1=anchor treatment), all other variables are described in the notes of Table 3 in the main paper.

^aCovariates are described in the notes of Table 2 in the main paper.

TABLE V: Robustness test of Table 3 in the main paper excluding the performance variable

	(1)	(2)	(3)	(4)
	OLS	IV	OLS	IV
Over-/underestimation	0.244***	0.338**	0.255***	0.312**
	(0.050)	(0.147)	(0.050)	(0.127)
Shock	0.425	0.406	0.525	0.520
	(0.455)	(0.455)	(0.470)	(0.455)
Constant	0.737**	0.505	-1.084	-1.243
	(0.363)	(0.511)	(2.885)	(2.893)
Observations	172	172	172	172
Adjusted R-squared	0.128	0.108	0.172	0.165
Covariates	No	No	Yes	Yes

Robust standard errors in parentheses *** p<0.01, ** p<0.05, * p<0.1

Notes. This table presents estimates of OLS regressions in models (1) and (3). Models (2) and (4) present estimates of IV regressions using the anchor treatment as an instrument for under-/overestimation. Coefficients are estimated without (models (1) and (2)) and with covariates (models (3) and (4)). Under-/overestimation reflects sellers' performance misperception and ranges from -12 to 19 (negative numbers indicate underestimation, positive numbers overestimation), and Shock is a dummy variable (1=shock treatment).

^aCovariates are described in the notes of Table 2 in the main paper.

TABLE VI: 1st stage results for Table V

	Under-/or	verestimation
	(2)	(4)
Anchor	3.104***	3.326***
	(0.683)	(0.670)
Shock	0.327	0.197
	(0.698)	(0.702)
Constant	0.949	-0.563
	(0.660)	(5.811)
Observations	172	172
R^2	0.109	0.172
Covariates ^{a}	No	Yes

Notes. Anchor is a dummy variable (1=anchor treatment), all other variables are described in the notes of Table V.

 $^a\mathrm{Covariates}$ are described in the notes of Table 2 in the main paper.

TABLE VII: Robustness test of Table 3 in the main paper including a dummy variable for fulfillable contracts

	(1)	(2)	(3)	(4)
	OLS	ÍV	OLS	IV
$Over ext{-}/underestimation$	0.289***	0.516*	0.300***	0.427**
	(0.055)	(0.275)	(0.057)	(0.213)
Shock	0.561	0.539	0.603	0.601
	(0.455)	(0.467)	(0.474)	(0.458)
Performance	0.200***	0.236***	0.161**	0.189**
	(0.065)	(0.072)	(0.076)	(0.078)
$Fulfillable\ contract$	-0.027	1.214	0.131	0.822
	(0.628)	(1.692)	(0.623)	(1.333)
Constant	-1.807**	-3.757	-2.984	-3.722
	(0.856)	(2.383)	(3.003)	(3.282)
Observations	172	172	172	172
Adjusted R-squared	0.160	0.079	0.188	0.163
Covariates	No	No	Yes	Yes

Notes. This table presents estimates of OLS regressions in models (1) and (3). Models (2) and (4) present estimates of IV regressions using the anchor treatment as an instrument for under-/overestimation. Coefficients are estimated without (models (1) and (2)) and with covariates (models (3) and (4)). Under-/overestimation reflects sellers' performance misperception and ranges from -12 to 19 (negative numbers indicate underestimation, positive numbers overestimation), Shock is a dummy variable (1=shock treatment), sellers' performance in the real-effort task is a continuous variable ranging from 0 to 25, and Fulfillable contract is a dummy variable (1=contract fulfillable).

 $[^]a$ Covariates are described in the notes of Table 2 in the main paper.

TABLE VIII: 1st stage results for Table VII

	Under-/ove	erestimation
	(2)	(4)
Anchor	1.773***	2.036***
	(0.603)	(0.605)
Shock	$0.176^{'}$	$0.082^{'}$
	(0.606)	(0.560)
Performance	-0.141*	0.203**
	(0.081)	(0.085)
Fulfillable contract	-4.931***	-4.839***
	(0.653)	(0.664)
Constant	7.121***	3.485
	(1.035)	(4.927)
Observations	172	172
R^2	0.180	0.255
Covariates a	No	Yes

Notes. Anchor is a dummy variable (1=anchor treatment), all other variables are described in the notes of Table VII. Fulfillable contract is a dummy variable (1=contract fulfillable).

 $^a\mathrm{Covariates}$ are described in the notes of Table 2 in the main paper.

TABLE IX: Robustness test of Table 4 in the main paper including a dummy variable for fulfillable contracts

			Contract	Breach		
	(1)	(2)	(3)	(4)	(5)	(6)
Overconf. Dummy	0.713***	0.623**	-0.424	0.713***	0.639**	-0.336
·	(0.255)	(0.286)	(0.491)	(0.255)	(0.284)	(0.545)
Loss Dummy	,	0.111	-0.978**	,	,	,
v		(0.264)	(0.497)			
Overconf. $Dummy \times Loss Dummy$,	1.532***			
·			(0.580)			
Loss aversion			, ,			-0.180*
						(0.107)
Overconf. Dummy \times Loss Aversion						0.259**
, and the second						(0.126)
Fulfillable Contract	-0.144	0.452	0.445	-0.149	0.449	0.476
	(0.271)	(0.372)	(0.379)	(0.271)	(0.372)	(0.377)
Performance	0.041	-0.030	-0.033	0.042	-0.026	-0.027
	(0.033)	(0.044)	(0.045)	(0.033)	(0.043)	(0.045)
Shock	0.403*	0.399*	0.447*	0.395*	0.388*	0.427*
	(0.210)	(0.224)	(0.228)	(0.213)	(0.222)	(0.227)
Offered Goods		0.102**	0.097**		0.098**	0.094**
		(0.045)	(0.046)		(0.045)	(0.045)
Constant	-1.191**	-2.415	-1.578	-1.148**	-2.294	-1.353
	(0.489)	(1.576)	(1.588)	(0.524)	(1.550)	(1.652)
Observations	157	157	157	157	157	157
Covariates	No	Yes	Yes	No	Yes	Yes
Pseudo R-squared	0.062	0.144	0.177	0.062	0.144	0.164

Standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1

Notes. ^aCovariates and loss aversion are described in the notes of Table 2.

The dependent variable is 1 if subjects breached the contract according to the definition in subsection 4.4 and 0 otherwise. *Fulfillable contract* is a dummy variable (1=contract fulfillable).

TABLE X: Robustness test of Table 5 in the main paper including a dummy variable for fulfillable contracts

			Contrac	ct Breach		
	(1)	(2)	(3)	(4)	(5)	(6)
Overestimation	0.104	-0.103	-0.214	0.0904	-0.241	-0.369*
	(0.106)	(0.172)	(0.193)	(0.107)	(0.187)	(0.200)
Loss Dummy	,	-0.883	-1.982	, ,	,	, ,
Ü		(1.010)	(1.592)			
$Overestimation \times Loss Dummy$		0.292	0.303			
ů –		(0.194)	(0.207)			
Loss aversion		, ,	,	0.144	-0.218	-0.138
				(0.167)	(0.235)	(0.245)
$Overestimation \times Loss \ Aversion$, ,	0.0893**	0.0984**
					(0.0418)	(0.0431)
Under estimation	0.0106	-0.0532	-0.136	0.0191	0.0326	0.0835
	(0.476)	(0.486)	(0.565)	(0.477)	(0.465)	(0.501)
Fulfillable Contract	-0.722	-0.495	0.275	-0.584	-0.172	0.602
	(0.780)	(0.797)	(1.081)	(0.798)	(0.802)	(1.063)
Performance	0.314***	0.298***	0.185	0.308***	0.277***	0.148
	(0.0968)	(0.0977)	(0.125)	(0.0972)	(0.0959)	(0.119)
Shock	-0.0292	-0.0699	-0.532	0.112	0.0664	-0.370
	(0.632)	(0.661)	(0.750)	(0.654)	(0.638)	(0.706)
Offered Goods			0.235*			0.239*
			(0.132)			(0.127)
Constant	0.747	1.318	-6.366	0.130	1.421	-4.842
	(1.579)	(1.723)	(4.546)	(1.738)	(1.799)	(4.428)
Observations	75	75	75	75	75	75
R-squared	0.138	0.167	0.279	0.148	0.202	0.307
Covariates ^{a}	No	No	Yes	No	No	Yes

Notes. ^aCovariates and loss aversion are described in the notes of Table 2.

The dependent variable is continuous and follows the definition in subsection 4.4. The presented regressions focus on subjects who breached the contract (N=75). Fulfillable contract is a dummy variable (1=contract fulfillable).

C Additional figures

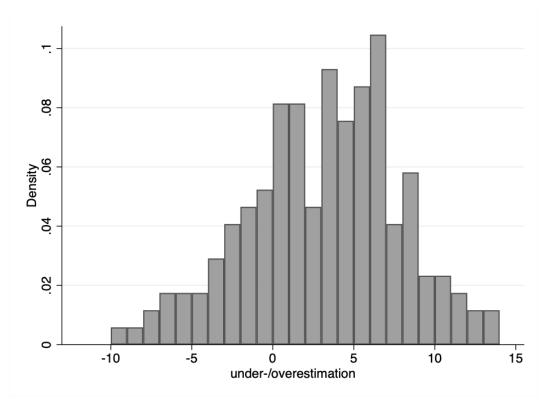


FIGURE I: Histogram of under-/overestimation (N=172) Notes. The histogram illustrates performance misperception in the real-effort task. Agents who underestimate their performance range left of zero, agents who overestimate their performance range right of zero, and agents who estimate their performance correctly have an under-/overestimation of zero.

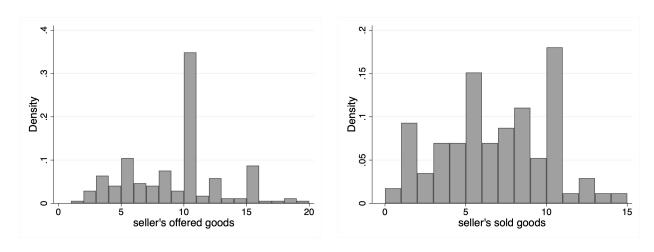


FIGURE II: Histogram of seller's offered goods (left) and sold goods (right) (N=172)

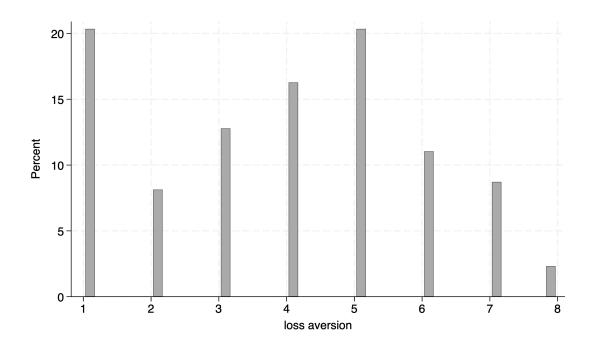


FIGURE III: Histogram of loss aversion (N=172)

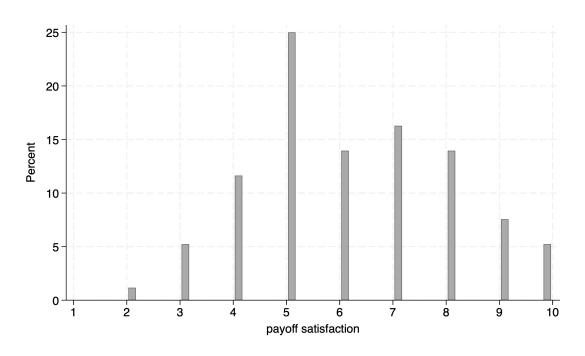


FIGURE IV: Histogram of payoff satisfaction (N=172)

References

D Instructions

Experimental Instructions

"Contract Breach under Biased Beliefs"

by S. Fischer and K. Grosch

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1 Welcome

Welcome to today's session

We would like to welcome you to today's session!

We start when all participants are in the room. If all participants are seated, you will get a little introduction and further information on today's session.

Two short questions before we start...

1. Generally speaking, would you say that most people can be trusted or that you need to be very careful in dealing with people? Please answer on a scale from 1 to 10 whereas 1 means "need to be very careful" and 10 means "most people can be trusted". Please choose one number between 1 and 10. You may grade your answers with values in between.

0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10

2. Do you think most people would try to take advantage of you if they got a chance, or would they try to be fair? Please answer on a scale from 1 to 10 whereas 1 means "people would try to take advantage" and 10 means "people would try to be fair". Please choose one number between 1 and 10. You may grade your answers with values in between.

0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10

2 Section 1

Section 1

Section 1 contains 4 subsections: 1A, 1B, 1C and 1D.

We start with subsection 1A.

Please click "Next" to continue



2.1 Section 1A: Social Value Orientation

Section 1A Instructions

In this section, you will be paired with one other participant in the room.

You will not learn who this other participant is and the participant you are matched with will not learn who you are.

There are **two roles** in this activity: role A (in the following person A) and role B (in the following person B). Person A has to actively decide how to allocate coins between person B and himself/herself. Person B has to accept the preferred allocation by person A.

All persons will actively decide in the role of person A– however, for which role (A or B) you will be paid will be randomly chosen by the computer.

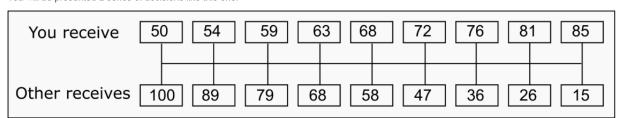
On the following page, we will explain the activity in further detail.

Please click "Next" to continue



Section 1A Instructions

You will be presented a series of decisions like this one:



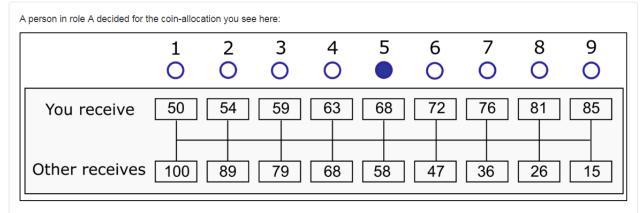
Each of the middle lines determines how much person A and person B receives. Looking at the first middle line, person A (that is you if you are selected into this role) receives 50 coins and person B (that is the person you are matched with) receives 100 coins. As we move to the right, the payment for the person in role A increases to 54, 59 up to 85. The payment of participant B decreases from 100 to 15 at the same time.

The task of the person in role A is to decide on the preferred allocation by choosing one of nine money allocations. The chosen distribution will determine the payments of the person in role A and the person in role B.

Only one distribution can be marked in each question.

On the next slide, we will give you an example of how such a decision can look like.

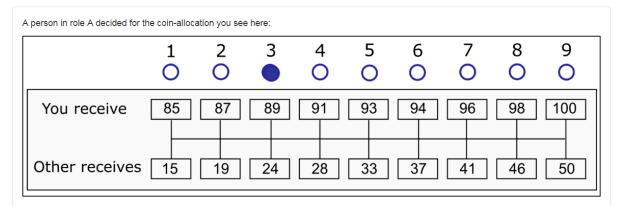
Section 1A Example I



A participant in role A decided for allocation 5. If this decision set is chosen for payment, person A would receive 68 coins. The person he/she is matched with, would receive 58 coins.

On the next page, we show you a second example. Please, press next.

Section 1A Example II



A participant in role A decided for allocation 3. If this decision set is chosen for payment, person A would receive 89 coins. The person he/she is matched with, would receive 24 coins.

On the next page, we will explain how the payoff will be calculated. Please, press next.

Section 1A Instructions

Payment:

You will make decisions for six different decision sets.

You make your decisions with "coins" whereas

1 coin = GHC 0.03.

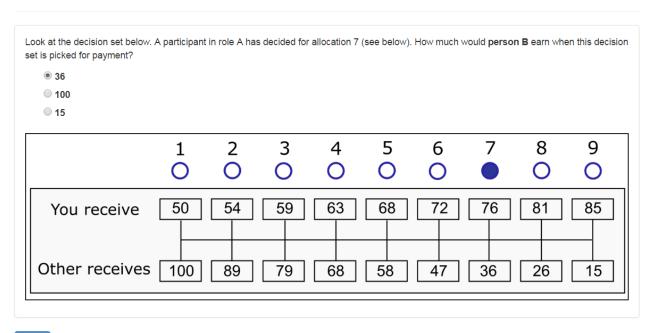
The computer will randomly decide for which role you are paid. The computer will randomly pick one of the decision sets for payment. You will only learn which decision set was drawn, for which role you are paid and how much you earned at the very end of today's workshop.

We have finished the instructions for this subsection.

Now, we move on to the control questions.

Please press **Next** as soon as you are ready to start with the control questions.

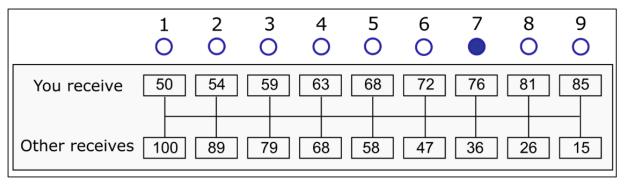
Section 1A Control Question 1/3



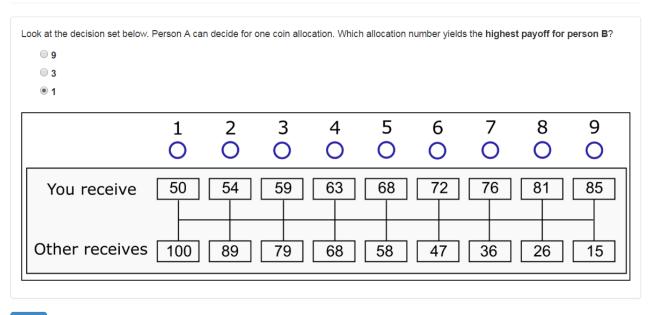
Correct, 36 is what person B will earn for allocation 7

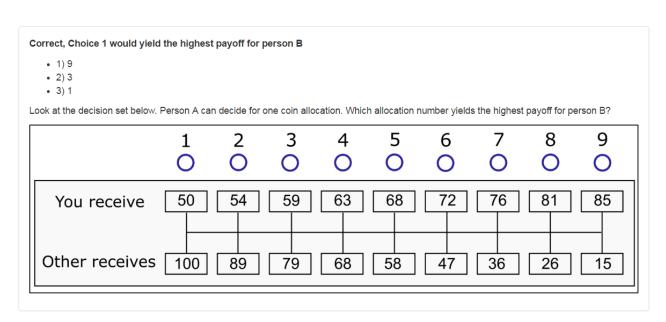
- 1) 36
- 2) 100
- 3) 15

Look at the decision set below. A participant in role A has decided for allocation 7 (see below). How much would person B earn when this decision set is picked for payment?



Section 1A Control Question 2/3





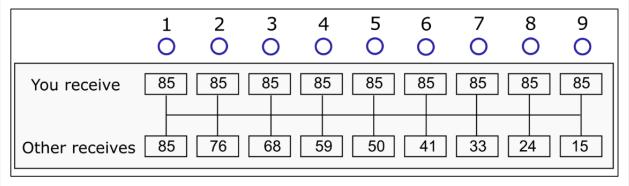
Section 1A Control Question 3/3

Look at the decision set below. Person A can decide for one coin allocation. For which allocation does person A decide if he/she wants to have the same payoff as person B? You receive Other receives

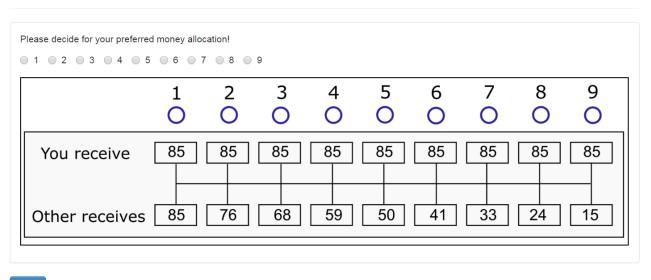
Correct, Choice 1 would get you the same payoff as person B.

- 1) 1
- 2)5
- 3)7

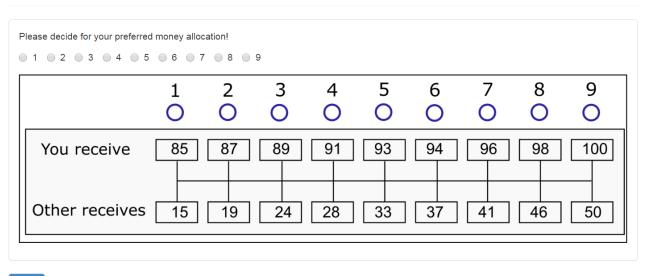
Look at the decision set below. Person A can decide for one coin allocation. For which allocation does person A decide if he/she wants to have the same payoff as person B?



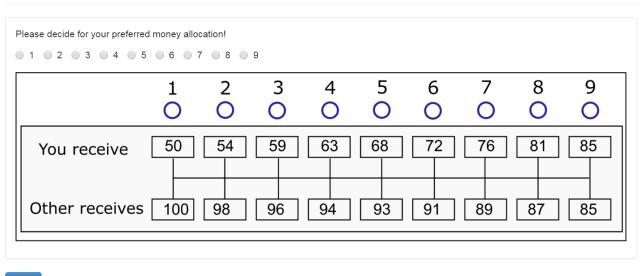
Section 1A Decision 1/6



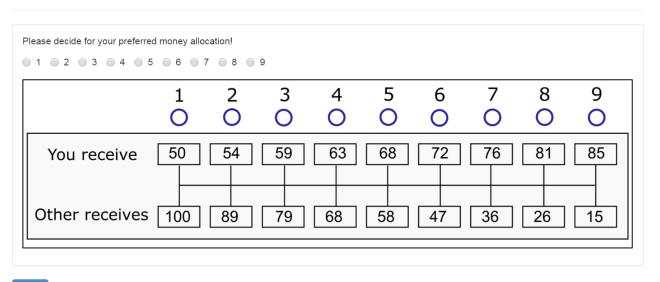
Section 1A Decision 2/6



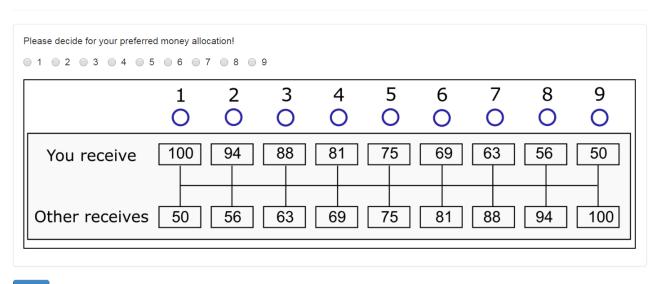
Section 1A Decision 3/6



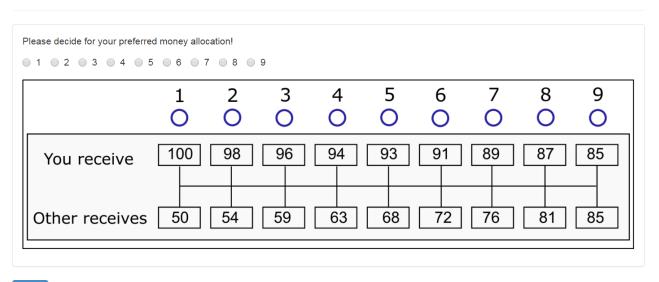
Section 1A Decision 4/6



Section 1A Decision 5/6



Section 1A Decision 6/6



End of Section 1A

You finished section 1A. We will now start with section 1B. We wait until all other participants have finished this subsection. Please press the next button.

2.2 Section 1B: Inequality Aversion

Section 1B Instructions

We start now with the instructions for subsection 1B. In 1B, the computer will randomly pair you with one other participant in the room. You will not learn who this other participant is and the participant you are matched with will not learn who you are.

In this section, the situation is as follows:

Person 1 is matched with person 2.

Person 1 will receive GHC 8 and can decide how much of the GHC 8, he/she wants to pass on to person 2.

Person 2 knows that person 1 has been called to make this decision, and may either accept the distribution chosen by person 1, or reject it.

In case that person 2 accepts person 1's proposed distribution, that distribution will be implemented. If person 2 rejects the offer, both receive nothing

You will have to make decisions as if you were person 1 and also as if you were person 2. In the latter case, you will have to decide when you would accept or reject the distribution by person 1.

Section 1B Instructions

Payment:

The computer will randomly chose if you will be paid for the role of person 1 or the role of person 2.

If the computer picks you to take up the role of person 1, there are two cases:

- 1) Person 2 accepts your offer. Then your decision will be implemented: You earn GHC 8 minus the amount you pass on. (And Person 2 receives the amount you pass on).
- 2) Person 2 does not accept your offer. Then your decision will not be implemented. You and Person 2 both earn GHC 0.

If the computer picks you to take up the role of person 2, you will earn the payoff that person 1 (the participant in the role of Person 1 you are paired with) chose for person 2 but only if you had accepted that particular offer. Otherwise, you both earn nothing.

You will only learn at the very end of today's session how much you earned in this activity.

We will give you an example on decisions of a person 1 and a person 2 and the resulting payoffs on the following pages.

Section 1B Example I

Person 1 is asked: How much of the GHC 8 would you pass on to person 2? It could be any amount between 0 and 8 but only full amounts (0, 1, 2, 3, 4, 5, 6, 7 or 8). Decision of person 1: GHC 3

Person 2 is asked at the same time: Person 1 received GHC 8. What is the minimum amount Person 1 has to offer you that you accepted the offer? Decision of person 2: GHC 2

Payment: Person 1 would pass on GHC 3. Person 2 only claims GHC 2 to accept the offer. Therefore this distribution will be implemented. Person 1 earns GHC 5 (GHC 8 – GHC 3 = GHC 5). Person 2 earns GHC 3.

We will give you one other example on the next page.

Section 1B Example II

Person 1 is asked: How much of the GHC 8 would you pass on to person 2? It could be any amount between 0 and 8 but only full amounts (0, 1, 2, 3, 4, 5, 6, 7 or 8). Decision of person 1: GHC 5

Person 2 is asked at the same time: Person 1 received GHC 8. What is the minimum amount Person 1 has to offer you that you accepted the offer? Decision of person 2: GHC 7

Payment: Person 1 would pass on GHC 5. However, person 2 claims GHC 7 to accept the offer. Therefore this distribution will not be implemented. Person 1 earns GHC 0. Person 2 earns GHC 0.

Control question 1/2

Person 1 is asked: How much of the GHC 8 would you pass on to person 2? It could be any amount between 0 and 8 but only full amounts (0, 1, 2, 3, 4, 5, 6, 7 or 8). Decision of person 1: GHC 1

Person 2 is asked at the same time: Person 1 received GHC 8. What is the minimum amount Person 1 has to offer you that you accepted the offer? **Decision of person 2: GHC 4**

In the scenario above: How much does person 2 earn?

Person 2 earns:

- GHC 0
- GHC 3
- GHC 4

We have finished the instructions for this subsection.

Control question 1/2 Answer

Wrong: Person 1 offers person 2 GHC 1. Person 2 accepts any offer of person 1 higher than GHC 4. GHC1 is smaller than GHC 4. Therefore person 2 does not accept the offer and person 1 and person 2 both earn 0.

Person 1 is asked: How much of the GHC 8 would you pass on to person 2? It could be any amount between 0 and 8 but only full amounts (0,1, 2, 3, 4, 5, 6, 7 or 8).

Decision of person 1: GHC 1

Person 2 is asked at the same time: Person 1 received GHC 8. What is the minimum amount he/she has to offer you that you accepted the offer?

Decision of person 2: GHC 4

In the scenario below: How much does person 2 earn?

Person 1 earns:

Person 2 earns:

- ∘ GHC 0
- 。GHC 3
- o GHC 4

Control question 2/2

Person 1 is asked: How much of the GHC 8 would you pass on to person 2? It could be any amount between 0 and 8 but only full amounts (0, 1, 2, 3, 4, 5, 6, 7 or 8). **Decision of person 1: GHC 4**

Person 2 is asked at the same time: Person 1 received GHC 8. What is the minimum amount Person 1 has to offer you that you accepted the offer? **Decision of person 2: GHC 4**

In the scenario above: How much does person 1 earn?

Person 1 earns:

- GHC 0
- GHC 2
- GHC 4

Control question 2/2 Answer

Wrong: Person 1 offers person 2 GHC 4. Person 2 accepts any offer of person 1 higher than GHC 4. The offer equals the minimum "acceptance amount" of person 2. Therefore, person 2 accepts the offer and person 1 and person 2 both earn 4.

Person 1 is asked: How much of the GHC 8 would you pass on to person 2? It could be any amount between 0 and 8 but only full amounts (0, 1, 2, 3, 4, 5, 6, 7 or 8).

Decision of person 1: GHC 1

Person 1 received GHC 8. What is the minimum amount he/she has to offer you that you accepted the offer? Decision of person 2: GHC 4

In the scenario below: How much does person 1 earn? How much does person 2 earn?

Person 1 earns:

- GHC 0
- GHC 2
- GHC 4

You finished reading the instructions and answered the control questions. You are now ready to make your final decisions. You will first make your decision in the role of person 1. Afterwards, you will make your decision in the role of person 2.

Please click "Next" if you are ready.

Your Decision

You are now making your decision for the role of person 1:
How much of the GHC 8 would you pass on to person 2? It could be any amount between 0 and 8 but only full amounts (0, 1, 2, 3, 4, 5, 6, 7 or 8).
Your decision GHC:

Your Decision

You now make your decision for the role of person 2:	
What is the minimum amount Person 1 has to offer you that you accepted the offer?	
Your decision GHC:	

End of Section 1B

You finished section 1B. We will now start with section 1C. Please press the next button.

Please click "Next" to continue.

2.3 Section 1C: Risk Preferences

Section 1C

In this subsection, we will offer you six different lotteries. These lotteries can have two outcomes: a high outcome (state A) or a low outcome (state B). It is randomly decided by a coin flip by the computer, which state will be realized. (Heads and tails are equally likely).

You have to select one of the six lotteries. That should be the one that you prefer most.

On the next page, we give you an example how the lotteries will look like.

Examples Section 1C

Example I:

In the table you see six different lotteries. Each row defines one lottery. There are two states A and B. If a participant decides for the first lottery, then he/she receives **GHC 2.5 for sure because the payoff is GHC 2.5 for heads and tails**.

Example II

If a participant **decides for lottery 4**, the coin flip will be relevant for the outcome: If the **coin shows heads**, the participant earns GHC 1.4. If the **coin shows tails**, the participant earns GHC 4.6.

Lottery	State A (coin shows heads)	State B (coin shows tails)	Select one Lottery
1	GHC 2.5	GHC 2.5	0
2	GHC 2.1	GHC 3.2	0
3	GHC 1.8	GHC 3.9	0
4	GHC 1.4	GHC 4.6	0
5	GHC 1.1	GHC 5.4	0
6	GHC 0.2	GHC 6.3	0

Instructions Section 1C

Payment:

In this activity, you will only make one decision. The computer will randomly pick which state (A or B) will be realized in the lottery you picked. You will be paid for this decision for sure. You will only learn how much you earned at the very end of todays workshop.

We have now finished the instructions for this subsection and will now check for your understanding with three control questions.

As soon as you are ready, click ok and we start with the control questions.

Please try to answer them as best as you can.

Section 1C Control Question 1/3

Look at the table below. A person has decided for lottery 3. If the computer flips the coin and the coin turns up heads, how much does this person earn?

0

◎ 3.9

1.8

Lottery	State A (coin shows heads)	State B (coin shows tails)	Select one Lottery
1	GHC 2.5	GHC 2.5	0
2	GHC 2.1	GHC 3.2	0
3	GHC 1.8	GHC 3.9	•
4	GHC 1.4	GHC 4.6	0
5	GHC 1.1	GHC 5.4	0
6	GHC 0.2	GHC 6.3	0

Section 1C Control Question 1/3

Look at the table below. A person has decided for lottery 3. If the computer flips the coin and the coin turns up heads, how much does this person earn?

- 1)0
- 2)3.9
- 3) 1.8

Lottery	State A (coin shows heads)	State B (coin shows tails)	Select one Lottery
1	GHC 2.5	GHC 2.5	0
2	GHC 2.1	GHC 3.2	0
3	GHC 1.8	GHC 3.9	•
4	GHC 1.4	GHC 4.6	0
5	GHC 1.1	GHC 5.4	0
6	GHC 0.2	GHC 6.3	0

Correct: The correct answer is 1.8. The lottery chosen is lottery 3. In this lottery one can either earn GHC 1.8 or GHC 3.9. As the coin turned up heads, state A comes into effect.

Section 1C Control Question 2/3

Look at the table below. A person has decided for lottery 1. If the computer flips the coin and the coin turns up tails, how much does this person earn?

0

2

2.5

Lottery	State A (coin shows heads)	State B (coin shows tails)	Select one Lottery
1	GHC 2.5	GHC 2.5	•
2	GHC 2.1	GHC 3.2	0
3	GHC 1.8	GHC 3.9	0
4	GHC 1.4	GHC 4.6	0
5	GHC 1.1	GHC 5.4	0
6	GHC 0.2	GHC 6.3	0

Section 1C Control Question 2/3

Look at the table below. A person has decided for lottery 3. If the computer flips the coin and the coin turns up heads, how much does this person earn?

- 1) 02) 23) 2.5

Lottery	State A (coin shows heads)	State B (coin shows tails)	Select one Lottery
1	GHC 2.5	GHC 2.5	
2	GHC 2.1	GHC 3.2	0
3	GHC 1.8	GHC 3.9	0
4	GHC 1.4	GHC 4.6	0
5	GHC 1.1	GHC 5.4	0
6	GHC 0.2	GHC 6.3	0

Correct: The correct answer is 2.5. The lottery chosen is lottery 1. In this lottery the person earns GHC 2.5 either case: state A or B.

Section 1C Control Question 3/3

Look at the table below. A person has decided for lottery 6. If the computer flips the coin and the coin turns up tails, how much does this person earn?

0.5

6.3

0.2

Lottery	State A (coin shows heads)	State B (coin shows tails)	Select one Lottery
1	GHC 2.5	GHC 2.5	0
2	GHC 2.1	GHC 3.2	0
3	GHC 1.8	GHC 3.9	0
4	GHC 1.4	GHC 4.6	0
5	GHC 1.1	GHC 5.4	0
6	GHC 0.2	GHC 6.3	•

Section 1C Control Question 3/3

Look at the table below. A person has decided for lottery 3. If the computer flips the coin and the coin turns up heads, how much does this person earn?

- 1) 0.52) 6.3
- 3) 0.2

Lottery	State A (coin shows heads)	State B (coin shows tails)	Select one Lottery
1	GHC 2.5	GHC 2.5	0
2	GHC 2.1	GHC 3.2	0
3	GHC 1.8	GHC 3.9	0
4	GHC 1.4	GHC 4.6	0
5	GHC 1.1	GHC 5.4	0
6	GHC 0.2	GHC 6.3	•

Correct: The correct answer is 6.3. The lottery chosen is lottery 6. In this lottery one can either earn GHC 0.2 or GHC 6.3. As the coin turned up tails, state B comes into effect.

You finished reading the instructions and answered the control questions. You are now ready to make your final decisions.

If you are ready to make your decision, please press the Next-button.

Your Decision

As announced, you have six lotteries to choose from! Please choose now the lottery that you would like to play most of all six lotteries. State A State B Lottery (coin shows heads) (coin shows tails) Select one Lottery GHC 2.5 GHC 2.5 2 GHC 2.1 GHC 3.2 GHC 1.8 GHC 3.9 3 GHC 1.4 GHC 4.6 4 5 GHC 1.1 GHC 5.4 GHC 0.2 GHC 6.3 6

End of Section 1C

You finished section 1C. We will now start with section 1D. We wait until all other participants have finished this subsection. Please press the next button.

2.4 Section 1D: Loss Aversion

Section 1D Instructions

In the following activity, you can again decide on if to play a lottery. However, this time you can choose more than one lottery that you would like to play.

If you accept the lottery, you can either win or lose money . Whether you win or lose is decided randomly by a coin flip.

If you reject the lottery, you earn 0. Please press next to see how such a lottery would look like.

Section 1D Instructions

Lottery	Accept	Reject
If the coin turns up heads, then you lose GHC 2; if the coin turns up tails, you win GHC 6	0	0

Above you see an example of a lottery. Left is described what you can lose if the coin turns up heads and what you can gain if the coin turns up tails. Right you can decide for acceptance or rejection of the lottery.

In the example above, the participant has to decide if he/she wants to accept the lottery of winning GHC 6 if the coin turns up tails and lose GHC 2 if the coin turns up heads.

If the participant decides to accept the lottery, the computer will toss a coin. If tails is up, the participant wins GHC 6. However, if the computer coin turns up heads, the earnings from the participant are reduced by GHC 2.

If the participant decides to reject the lottery, the participant will earn 0.

Section 1D Instructions

Payment:

You will make decisions for six different lotteries. The computer will randomly pick one of the lotteries for payment. If you accept a lottery, there will be a random "coin toss" by the computer. This coin toss is decisive for your earnings – if you gain something or lose something – in the lottery. You will only learn which lottery was drawn and how much you have earned or lost at the very end of today's workshop. If you lose money, it will be deduced from your total payoff in today's session. Of course, you will never end up with less than GHC 20 (your participation fee).

Please note that the lotteries will be ordered in the final decision. The amount that can be lost will increase while the amount that can be won is the same in all lotteries. Therefore, you can only switch once.

We have finished the instructions for this subsection.

We now move on to the control questions.

Please click "Next" if you are ready to begin..

Section 1D Control Question 1/3

Lottery	Accept	Reject
If the coin turns up heads, then you lose GHC 1; if the coin turns up tails, you win GHC 4	0	
Please have a look at the lottery above. The person checked the box for "reject".		
The coin is tossed and turns up heads.		
How much does the person earn?		
O Loses GHC 1		
○ Gains GHC 4		
Earns GHC 0		

Section 1D Control Question 1/3

Lottery	Accept	Reject
If the coin turns up heads, then you lose GHC 1; if the coin turns up tails, you win GHC 4	0	•

Please have a look at the lottery above. The person checked the box for "reject".

The coin is tossed and turns up heads.

How much does the person earn?

- Loses GHC 1
- Gains GHC 4
- Earns GHC 0

Correct: The person rejected to play the lottery. Therefore, the person earns 0 in any case: heads or tails.

Section 1D Control Question 2/3

Lottery	Accept	Reject
If the coin turns up heads, then you lose GHC 3; if the coin turns up tails, you win GHC 4	•	0
Please have a look at the lottery above. The person checked the box for "accept".		
The coin is tossed and turns up heads.		
How much does the person earn?		
Gains GHC 3		
O Loses GHC 3		

Section 1D Control Question 2/3

Lottery	Accept	Reject
If the coin turns up heads, then you lose GHC 3; if the coin turns up tails, you win GHC 4	•	0

Please have a look at the lottery above. The person checked the box for "accept".

The coin is tossed and turns up heads.

How much does the person earn?

- Gains GHC 3
- Loses GHC 3
- Earns GHC 0

Correct: The person accepted the lottery. Therefore, the lottery will be played. Heads results in a loss

Section 1D Control Question 3/3

Lottery	Accept	Reject
If the coin turns up heads, then you lose GHC 8; if the coin turns up tails, you win GHC 2	•	0

Please have a look at the lottery above. The person checked the box for "accept".

The coin is tossed and turns up tails.

How much does the person earn?

- Earn GHC 0
- Gains GHC 2
- O Loses GHC 8

Section 1D Control Question 3/3

Lottery	Accept	Reject
If the coin turns up heads, then you lose GHC 8; if the coin turns up tails, you win GHC 2	•	0

Please have a look at the lottery above. The person checked the box for "accept".

The coin is tossed and turns up heads.

How much does the person earn?

- Earns GHC 0
- Gains GHC 2
- Loses GHC 8

Wrong: The person accepted the lottery. Therefore, the lottery will be played. Tails results in a gain of GHC 2 for this person as stated in the lottery description

You finished reading the instructions and answered the control questions. You are now ready to make your final decisions.

If you are ready to take your decisions, please press the Next-button.

Your Decision

Please make your decision for each of the following lotteries now. Please note that the lotteries will be ordered in the final decision. The amount that can be lost will increase while the amount that can be won is the same in all lotteries. Therefore, you can only switch once. #1. If the coin turns up heads, then you lose GHC 1.5; if the coin turns up tails, you win GHC 9 ○ accept ○ reject #2. If the coin turns up heads, then you lose GHC 3; if the coin turns up tails, you win GHC 9 ○ accept ○ reject #3. If the coin turns up heads, then you lose GHC 4.5; if the coin turns up tails, you win GHC 9 ○ accept ○ reject #4. If the coin turns up heads, then you lose GHC 6; if the coin turns up tails, you win GHC 9 ○ accept ○ reject #5. If the coin turns up heads, then you lose GHC 7.5; if the coin turns up tails, you win GHC 9 #6. If the coin turns up heads, then you lose GHC 9; if the coin turns up tails, you win GHC 9 ○ accept ○ reject #7. If the coin turns up heads, then you lose GHC 10.5; if the coin turns up tails, you win GHC 9 ○ accept ○ reject

End of Section 1D

You finished section 1! We will now start with section 2. Please press the next button.

Please press Next. We wait until all other participants have finished this subsection. Please be patient.

3 Section 2

Section 2

1. All other participants have finished Section 1. Now we are ready to start with Section 2. Before we start, please answer the following question:

Are you male or female?

• male | female

Please press Next as soon as you are ready.

Section 2

Section 2 consists of three different parts. The three parts are associated with each other.

In Part 1 you are going to work on a production task in which you will solve puzzles.

In Part 2 you will assess your own performance and the performance of others.

In Part 3 you will perform the task with similar puzzles again.

We will explain each part separately in detail one after another.

Please press Next to continue.

3.1 Part 1

Section 2 Part 1

We start now with the instructions for Section 2 Part 1.

Please press Next as soon as you are ready.

Section 2 Part 1: Instructions

In this part you will work on a production task, that is producing goods by solving puzzles. For each puzzle that will be solved correctly one good will be produced.

You will be confronted with 25 puzzles in form of multiple choice questions.

For each puzzle you will have 15 seconds time to choose the right answer. After 15 seconds the next question will appear automatically.

It will not be possible to go back to previous questions.

Please press Next to continue.

Section 2 Part 1: Instructions

As a default always the first answer in every question is logged in automatically. If you do not make any entry the computer will keep answer 1.

Please note that it is completely random which number belongs to the correct answer.

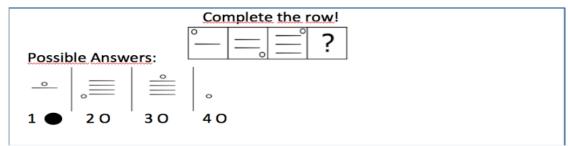
Not choosing actively the right answer and always leaving the default answer logged in does not increase your chances of having correct answers.

On the next page, we give you an example of how such a puzzle could look like.

Please press Next to continue.

Section 2 Part 1: Example 1

In this task you will have to choose the symbol that fits into the pattern. Example (1):

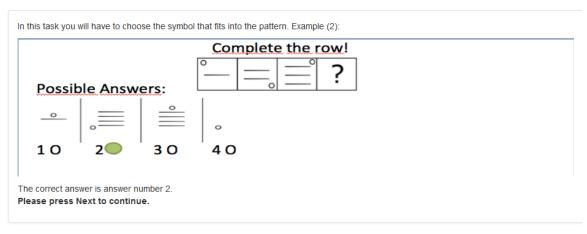


There is only one correct answer for each question.

Note that by default the first answer is logged in. Is that the right answer? Think about the right answer and check if you are right on the next page.

Please press Next to continue.

Section 2 Part 1: Example 2



Section 2 Part 1: Payment

You will earn GHC 0.20 for each correct answer.

We have finished the instructions for Part 1. Now, we move on to the control questions.

Please press Next as soon as you are ready to start with the control questions.

Is the following statement true or false?

If I don't know the correct answer, keeping the default answer increases the probability of giving a correct answer:

● True ○ False

Is the following statement true or false?

If I don't know the correct answer, keeping the default answer increases the probability of giving a correct answer

Wrong. The default answer is always the first answer. Sometimes that will be the right answer, sometimes that will be the wrong answer. Choosing the default option does not increase the probability of having correct answers.

Is the following statement true or false?

My performance in this task will be relevant for my earnings in today's session:

○ True ● False

Is the following statement true or false?

My performance in this task will be relevant for my earnings in today's session

Wrong. You will earn GHC 0.20 for each correct answer you give.

Is the following statement true or false?

Everybody in the room works on the same tasks:

True False

Is the following statement true or false?

Everybody in the room works on the same tasks

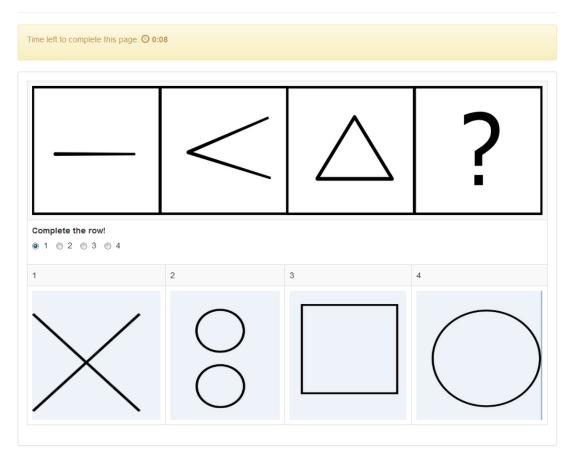
Correct. Every participant of the study is doing the same task at the same time.

You finished the control questions!

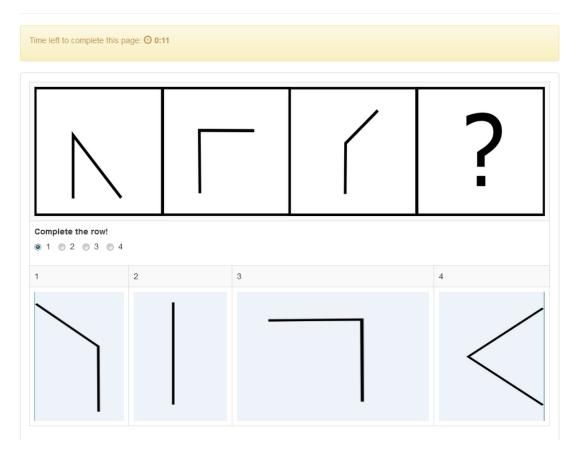
Now you are ready to produce goods!

Press Next, if you are ready to begin

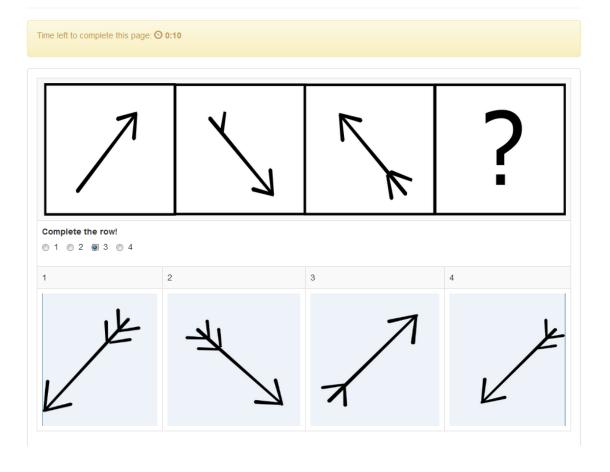
Section 2 Part 1: Task 1



Section 2 Part 1: Task 2



Section 2 Part 1: Task 3



• • •

You finished Section 2 Part 1!

We will now start with Part 2.

Press Next, if you are ready to begin.

3.2 Part 2

Section 2 Part 2: Instructions

We start now with the instructions for Part 2.

In this part we will ask you questions about how you evaluate your own performance and also the performance of other people in the production task.

Payment:

For each correct guess you can earn 5 Ghana Cedi. You will be informed at the end of the session about how much you earned in this part.

Please press Next to answer the first question.

Estimate how many goods you have produced in the production task in Part 1! Recall that you worked on 25 tasks in total.
If your estimation is correct you will earn GHC 5.
What do you think, how many goods did you produce in Part 1?
I think I produced:
goods.
Please confirm your answer by clicking on the Next-button.

Please give us your estimation on how many goods have been produced by men on average.

If your estimation is correct you will earn GHC 5.

What do you think, how many goods have been produced on average by other men in the room (excluding your own performance).

I think other men produced on average:

goods.

Please confirm your answer by clicking on the Next-button.

Now we would like you to estimate how many goods have been produced by other participants in the room.
Please give us your estimation on how many goods have been produced by the other female participants on average.
If your estimation is correct you will earn GHC 5.
What do you think, how many goods have been produced on average by other women in the room (excluding your own performance).
I think other women produced on average:
goods.
Please confirm your answer by clicking on the Next-button.

Section 2 Part 2: End

We have finished Part 2 of Section 2

Please click Next to continue.

3.3 Part 3

Section 2 Part 3

We start now with the instructions of Part 3. Instructions for this part are a little bit longer than for the other activities. We explain the procedure therefore first only in words. Afterwards you will see illustrated instructions again. So do not worry if you do not get everything the first time.

In this section, you will be paired with one other participant in the room.

You will not learn who this other participant is and the participant you are matched with will not learn who you are.

Please click Next to continue.

Section 2 Part 3: Instructions

The two persons who are matched with each other will be assigned different roles. One person will be selected to be a **buyer** and the other person will be selected to be a **seller**.

The buyer receives an endowment of GHC 4.

It will be random whether you will have the role of the buyer or the role of the seller.

Please click Next to continue.

The buyer and the seller will be able to earn money by trading with each other.

The seller produces low value goods. Buyer and seller can decide to virtually sign a contract under which the buyer makes an investment that increases the value of the seller's goods and the seller delivers high value goods to the buyer.

The steps of trading are explained in detail on the following pages:

Please click Next to continue.

Step 1: Production of goods (1)

The seller gets the opportunity to produce goods by answering 25 questions that are very similar to the ones in Part 1.

For every correct answer a low value good will be generated. That means that if all 25 questions will be answered correctly, a maximum of 25 goods can be produced by the seller.

The value of one low value good produced is GHC 0.20.

Step 1: Production of goods (2)

It is possible that a shock occurs and affects the production of the seller. If the shock occurs, the production of the seller can be affected positively or negatively.

That means that some more goods are generated or some less goods are generated by chance, independently from the performance of the seller.

Step 2: Decision of Seller

The seller can decide to offer a contract to the buyer on selling a certain quantity of goods to the buyer or choose to sell the goods to an alternative market for 0.20 GHC.

The seller does not know yet the number of goods that he or she produced but will be asked to give an estimation about his production similar as in Part 2.

If the seller does not offer a contract then the buyer keeps his endowment of GHC 4.

If the seller decides to offer a contract she/he will choose the number of goods that she/he is willing to sell to the buyer.

Only when the seller decides to offer a contract to the buyer, we continue with step 3.

Step 3: Decision of Buyer

The buyer can decide whether to accept or to reject the contract.

If the buyer accepts the contract the endowment of GHC 4 will be invested in the seller's production. The investment of the buyer increases the value of the seller's goods. The goods are transformed by the buyer's investment to high value goods.

If the buyer rejects the offer, the buyer keeps his endowment and the seller sells each good to the alternative market for 0.20 GHC.

Step 4: Selling goods (1)

After the contract has been made, the seller and the buyer will be informed about the amount of goods produced.

Seller and Buyer also get the information on whether or not a random shock could have affected the production.

In case there was a shock neither the seller nor the buyer will be informed about whether the shock was positive or negative.

Step 4: Selling goods (2)

The seller has two different opportunities for selling high value goods. High value goods can be sold to the buyer for GHC 1 per good. High value goods can also be sold to the alternative market for GHC 2.5 per good.

The seller is supposed to sell the number of goods to the buyer, that has been agreed upon in the contract.

The surplus in produced goods are not supposed to be sold to the buyer and can be sold to the alternative market.

Step 4: Selling goods (3)

The contract is not enforceable: The seller has the final decision on how many goods to sell to the buyer.

The buyer earns GHC 1 for each good that the seller sells to him.

The buyer does not earn anything for goods that are sold to the alternative market.

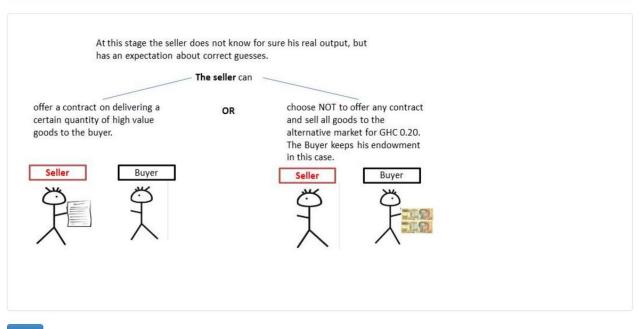
Repetition of the procedure in Part 2: The seller is producing goods by answering questions correctly. Seller

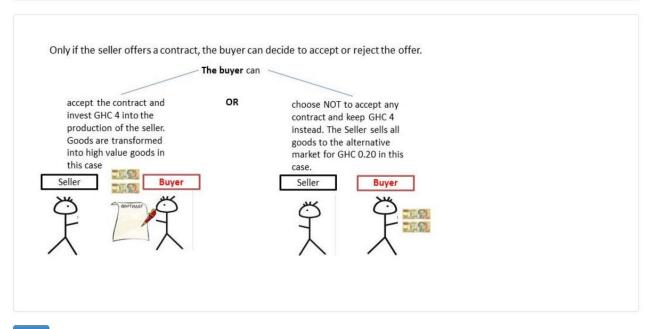
With a 50% chance a shock will occur.

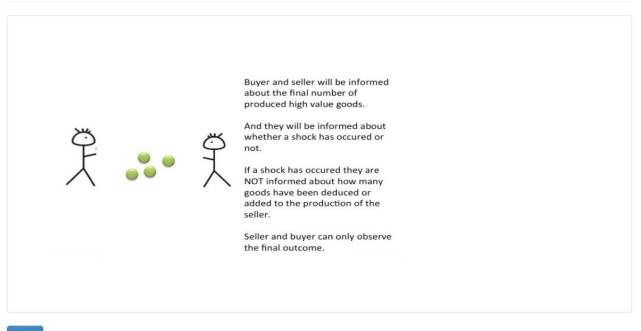
A shock can either increase or decrease the number of goods.

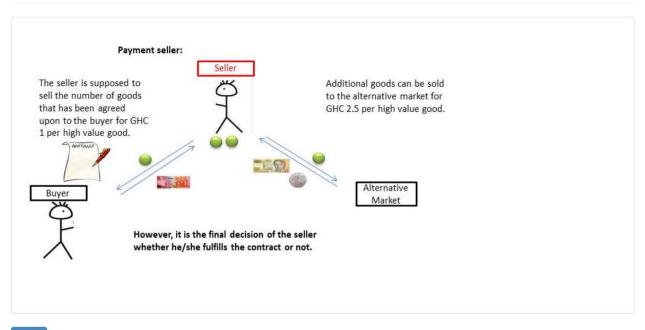
It is equally likely that a shock will add 2 or reduce 2 goods.

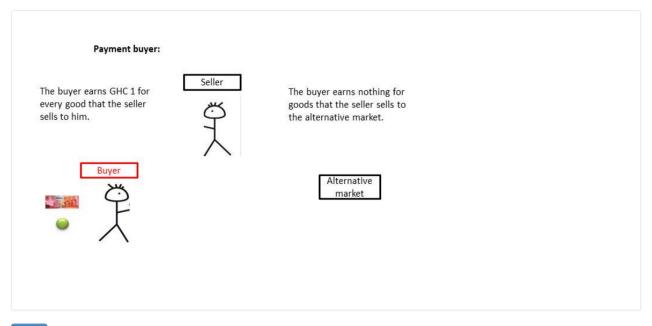












Section 2 Part 3

Please remember that in Part 1, you all engaged in a similar production task already.

Please note that the buyers will be informed about the performance of the sellers during the test questions in Part 1.

Please click Next to continue.

Section 2 Part 3

We have finished the instructions for Part 3.

Now, we move on to the control questions.

Please press Next as soon as you are ready to start with the control questions.

Is the following statement true or false?

The buyer does not earn any money if he doesn't accept a contract.

○ True ● False

Is the following statement true or false?

The buyer does not earn any money in Part 3 if he doesn't accept a contract.

Correct. If the buyer decides not to accept the contract, he/she earns his/her endowment of 4 GHC.

Is the following statement true or false?

The contract will be enforced automatically.

True
False

Is the following statement true or false?

The contract will be enforced automatically.

Correct. The contract is not enforceable. The seller is supposed to honor the contract, but the buyer does not receive his share automatically. Whether the buyer receives his share depends on the decision of the seller.

Is the following statement true or false?

The number of goods that will be produced depends only on the seller's performance in the task.

○ True ● False

Is the following statement true or false?

The number of goods that will be produced depends only on the seller's performance in the task.

Correct. For every correct answer of the seller one good will be generated. However, it is possible that a shock occurs. A shock can either deduce two goods or add two additional goods with equal likelihood.

Is the following statement true or false?

Shocks will always occur.

True
False

Is the following statement true or false?

Shocks will always occur.

Correct. A shock occurs only with 50% probability. Buyer and seller will be informed about whether a shock has occured once the seller finished the task. However, they will not be informed about whether the shock was positive or negative.

Imagine a seller signs a contract with a buyer over delivering 10 goods to him/her. Assume the seller produces in total 15 goods. He/she sticks to the contract and sells 10 goods to the buyer and 5 goods to the outside option. How much would the seller earn?

- 10 Ghana Cedi
- 15 Ghana Cedi
- 22.5 Ghana Cedi

Is the following statement true or false?

Correct.The seller would earn 22,5 Ghana Cedi. If he/she sticks to the contract the seller sells 10 goods to the buyer for 1 Ghana Cedi per good. The total income from selling to the buyer is 10 Ghana Cedi. In total the seller produced 15 goods. There is a surplus of 5 goods that can be sold to the outside option. Here the seller earns 2,5 Ghana Cedi per good. The total income from selling to the outside option is therefore 12,5 Ghana Cedi. The total earnings are the sum of income from selling to the buyer and selling to the outside option, i.e. 22,5 Ghana Cedi.

Imagine a seller signs a contract with a buyer over delivering 10 goods to him. Assume the seller produces in total 15 goods. The seller does not honor the contract and sells 5 goods to the buyer and 10 goods to the outside option. How much would the buyer earn?

- 10 Ghana Cedi
- 5 Ghana Cedi
- 7.5 Ghana Cedi

Is the following statement true or false?

Correct. The buyer would earn 5 Ghana Cedi. For each good that the seller sells to him the buyer earns 1 Ghana Cedi. If the seller sells 5 goods to the buyer the buyer therefore earns 5 Ghana Cedi.

Section 2 Part 3

You finished the control questions.

You will be now randomly matched with another person and randomly assigned by the computer to either the role of the buyer or the role of the seller.

We will wait until the other participants have also finished the instructions.

Please click Next to continue.

3.3.1 Seller (before working on re-task)

Section 2 Part 3: Role

You have been randomly selected to be a **Seller**.

You will stay a **Seller** for the entire second part of this section.

Please click Next to continue.

Treatment: Exact Feedback

Section 2 Part 2

Before you start to produce goods we would like to inform you about the amount of goods you produced in Part 1.

Please click on Next to see your performance in Part 1.

Section 2 Part 2

Your performance in Part 1 was 7 goods .

Please click Next to continue

Treatment: Noisy Feedback

Section 2 Part 2

Before you start to produce goods we would like to inform you about how many goods you produced in Part 1.

You will not learn the exact amount of produced goods but you receive a range in which your real performance lies in.

It is equally likely that your real performance is on the lower end, somewhere in the middle or at the upper end of the range.

Please click Next to have a look at your performance in Part 1.

Section 2 Part 2

Your performance of Part 1 lies between 2 and 8 goods.

Please click Next to continue

Re-task (all treatments)

Section 2 Part 3

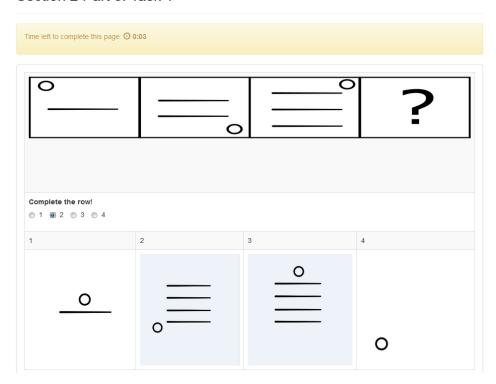
You can now start to produce goods.

Be reminded that the task consists of 25 puzzles and you will have 15 seconds for each puzzle.

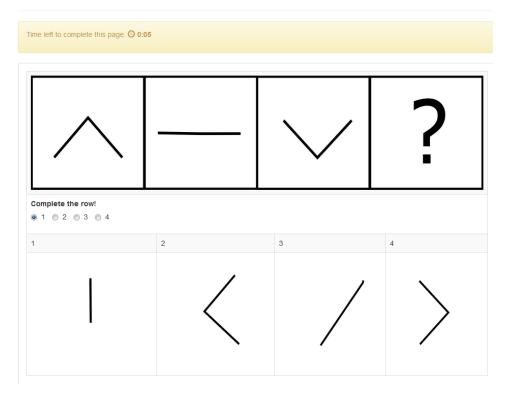
For every correct answer one low value good with a value of GHC 0.20 will be produced.

Please click Next to continue.

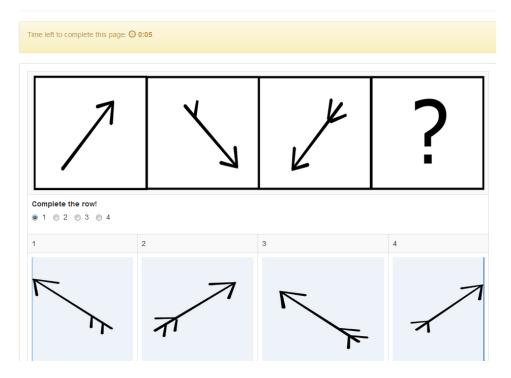
Section 2 Part 3: Task 1



Section 2 Part 3: Task 2



Section 2 Part 3: Task 3



 \bullet

3.3.2 Buyer (before working on re-task)

Section 2 Part 3: Role

You have been randomly selected to be a **Buyer**.

You will stay a **Buyer** for the entire second part of this section.

Please click Next to continue.

Before you start to produce goods we would like to inform you about the amount of goods you produced in Part 1.

Please click on Next to see your performance in Part 1.

Your performance in Part 1 was ${f 7}$ goods .

Please click Next to continue

The seller is now producing goods.

In the meantime you have two different options, while you are waiting.

You can

- 1. Do the task of Part 1 with similar puzzles again for yourself. You will get 1 candy if your performance is above 3 goods. OR
- 2. Do the task of Part 1 with similar puzzles again in a competition against another randomly selected player. You will compete against the performance of a randomly selected player in Part 1. If you win the competition you will earn 4 candys.

You will learn about how many candies you earned only at the very end of today's session.

Please click Next to continue.

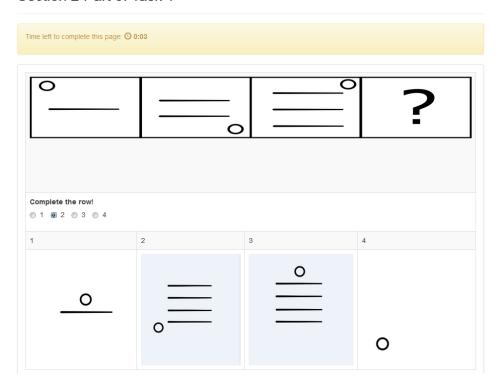
Section 2 Part 3: Tasks

Please decide what you want to do while the seller is producing goods. (The first option is logged in automatically. If you want to switch, please press the button for option 2.)

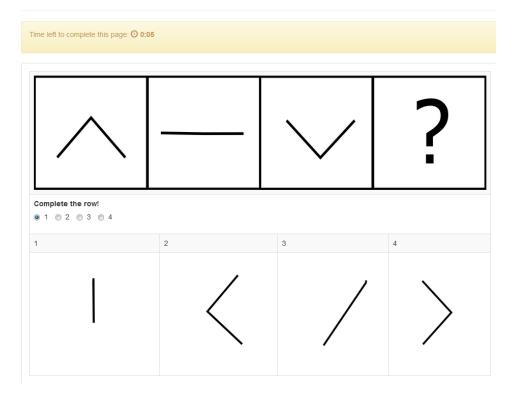
- I want to do the task again for myself.
- O I want to do the task again and compete against another participant.

Confirm your answer by clicking on Next.

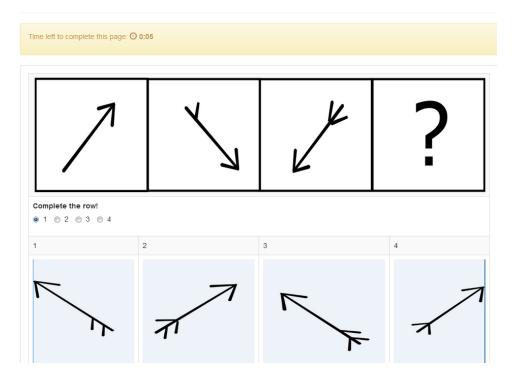
Section 2 Part 3: Task 1



Section 2 Part 3: Task 2



Section 2 Part 3: Task 3



. . .

3.3.3 Seller (after re-task)

Treatment Anchoring (one slide)

Section 2 Part 3

Time's up!
Do you think you gave more than 20 correct answers?
○ Yes
◎ No
Next

What do you think, how many correct a	swers did you give?	
I think my performance was		
12		
correct answers.		
If your guess is correct you will earn GF	C 5.	
How sure are you that your guess is co The more you move the slider to the rig	rect? It the more sure you are. The more you move the slider to the left the less sure you are.	
Not Sure	Sure	
Does the position of the slider represer	how sure you are with your estimation?	
• Yes.		
If not, please adjust the ruler, so that it f	s you. Please confirm your answers by clicking on the Next-button.	

You can now decide to offer a contract to the buyer or not to offer any contract and sell your goods for GHC 0.20 per piece to the alternative market.

If you offer a contract:

You will make a decision on the amount of produced goods you want to sell to the buyer for a price of GHC 1.

If the buyer accepts the contract by making an investment the value of your goods will increase. According to the contract terms you will be supposed to sell the number of goods to the buyer that you have agreed upon.

You stated that you estimate that you produced 12 goods.

The buyer will only be informed about the amount of goods that you produced in the trial round in Part 1.

Please remember that the value of your goods will only increase if the buyer agrees to make an investment.

Therefore, think carefully about your offer.

Section 2 Part 3: Calculate Profits

With this tool you can calculate the expected profit from the contract depending on your expected performance and your offer. You can
change your entry as often as you want. You can also see your profit and the buyers profit.
My expected performance is 12 goods
I offer 4 goods to the buyer.
Your income from selling to the buyer: GHC 4
Your income from selling to outside option: GHC 20
Your total income: GHC 24
The buyers' total income: GHC 4
Please click on the Next-Button in order to decide whether you want to offer a contract.

Section 2 Part 3: Offer Contract

Your expected performance is 12 goods	
Will you offer the buyer a contract?	
Yes	
○ No	
Please click Next to continue.	

Section 2 Part 3: Offer Goods

our expected performance is 12 goods	
How many goods do you want to offer?	
4	
Please click Next to continue.	

Please wait Waiting for the other participant.

Section 2 Part 3: Offer Accepted

The buyer decided to accept your contract and made the investment. Your goods are now transformed to high value goods.

Please click Next to continue.

No Shock Treatment

Section 2 Part 3



The buyer has been informed about the number of goods that you produced and that your production has not been affected by a random shock.

The buyer also knows your performance in Part 1.

Please click Next to continue.

Section 2 Part 3: Contract Overview

Your expected performance was 12 goods .

You produced 6 goods. According to the contract you are supposed to sell 4 goods to the buyer.

According to your expected performance and the contract that you signed your expected payoff was **24.0GHC**. If you sticked to the contract you and the buyer would earn the payoffs written below:

Please note that if your number of produced goods is not enough in order to fulfill the contract this overview assumes that you sell all produced goods to the buyer and nothing to the alternative market.

Your income from selling to the buyer: 4.0 GHC

Your income from selling to the alternative market: 5.0 GHC

Your total income: 9.0 GHC

The buyers' total income: 4.0GHC

Please click on next in order to decide how many goods you finally want to sell to the buyer.

Section 2 Part 3: Calculate Profits

Your expected performance was 12 goods . You produced 6 goods. According to the contract you are supposed to sell 4 goods to the buyer.
According to your expected performance and the contract that you signed your expected payoff was 24.0GHC.
Please make now your final decision on how much you want to sell to the buyer. You can see your profit and the buyer's profit depending on your decision. You can try out scenarios in the upper part of the page. You make your final decision on the bottom of the page.
Please note that you can't sell more than the maximum amount of produced goods.
I sell 4 goods to the buyer.
Your income from selling to the buyer: GHC 4
Your income from selling to outside option: GHC 5
Your total income: GHC 9
The buyers' total income: GHC 4
How much do you want to sell to the buyer?
Please confirm your final decision by clicking on next.

Section 2 Part 3: Sold Goods

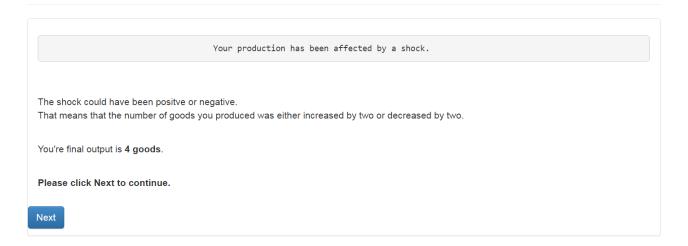
You sold 4 goods to the buyer.

Your Income from the contract is GHC9.00.

Please click Next to continue.

Shock Treatment

Section 2 Part 3



The buyer has been informed about the number of goods that you produced and that your production has been affected by a random shock.

The buyer also knows your performance in Part 1.

Please click Next to continue.

Section 2 Part 3: Contract Overview

Your expected performance was 12 goods

You produced 4 goods. According to the contract you are supposed to sell 4 goods to the buyer.

According to your expected performance and the contract that you signed your expected payoff was **24.0GHC**. If you sticked to the contract you and the buyer would earn the payoffs written below:

Please note that if your number of produced goods is not enough in order to fulfill the contract this overview assumes that you sell all produced goods to the buyer and nothing to the alternative market.

Your income from selling to the buyer: 4.0 GHC

Your income from selling to the alternative market: 0.0 GHC

Your total income: 4.0 GHC

The buyers' total income: 4.0GHC

Please click on next in order to decide how many goods you finally want to sell to the buyer.

Please make now your final decision on how much you want to sell to the buyer. You can see your profit and the buyer's profit depending on your decision. You can try out scenarios in the upper part of the page. You make your final decision on the bottom of the page.

Please note that you can't sell more than the maximum amount of produced goods.

I sell 4 goods to the buyer.

Your income from selling to the buyer: GHC 4

Your income from selling to outside option: GHC 0

Your total income: GHC 4

Please confirm your final decision by clicking on next.

How much do you want to sell to the buyer?

4|

Please confirm your final decision by clicking on next.

Your expected performance was $12\ goods$. You produced $4\ goods$. According to the contract you are supposed to sell $4\ goods$ to the buyer.

According to your expected performance and the contract that you signed your expected payoff was 24.0GHC

Section 2 Part 3: Sold Goods

You sold 4 goods to the buyer.

Your Income from the contract is GHC9.00.

Please click Next to continue.

Section 2 Part 3: Finished!

You finished section 2!

Before you proceed to the questionnaire, you have the opportunity to earn some extra money for yourself or somebody else for answering the questionnaire. For that, we do a short activity with dice. There will be two questions and one of these questions will be randomly chosen for payment at the end of today's session.

YYou find dice and cup in your box.

Please press Next to read further instructions.

3.3.4 Buyer (after re-task)

Section 2 Part 3: Accept Contract

ne seller produced in	n the trial round in F	art 1 7 goods.		
ow you have been o	ffered 4 goods .			
o you want to acce	pt the contract?			
Yes				
○ No				
ease click Next to	continue.			

Please wait Waiting for the other participant.

No Shock Treatment

Section 2 Part 3: Produced Goods

The seller's production has not been affected by a shock.

The Seller's output is 6 goods.

Please click Next to continue.

Shock Treatment

Section 2 Part 3: Produced Goods

The seller's production has been affected by a shock.

The shock could have been positve or negative.

That means that the number of goods the seller produced was either increased by two or decreased by two.

The Seller's final output is 4 goods.

Please click Next to continue.

Section 2 Part 3: Sold Goods

The seller sold **4 goods** to you.

Your Income from the contract is GHC4.00.

Please click Next to continue.

3.4 Dice-Game

Section 2 Part 3: Finished!

You finished section 2!

Before you proceed to the questionnaire, you have the opportunity to earn some extra money for yourself or somebody else for answering the questionnaire. For that, we do a short activity with dice. There will be two questions and one of these questions will be randomly chosen for payment at the end of today's session.

YYou find dice and cup in your box.

Please press Next to read further instructions.

Section 2 Part 3: Dice and Cups

First question:

You may now receive an additional payoff. You determine your own payoff by throwing your dice twice. The dice is 10-sided. The higher the number on the dice, the more payoff you might receive. If you reported a 1 and the question is selected for payment, you will receive GHC 0,20, if you throw a 2, you will receive GHC 0,40 and so on and so forth. The payoffs are displayed in the table below.

Dice	1	2	3	4	5	6	7	8	9	10
Payoff	0,20	0,40	0,60	0,80	1	1,20	1,40	1,60	1,80	2

Your first throw serves to make sure that the dice is working properly.

Your second throw determines how much you might receive if this question is selected for payment.

You may of course throw the dice more than twice. However, only the second throw counts.

Please click Next to continue.

Section 2 Part 3: Role Dice

Please roll the dice now.
Please roll the dice a second time and report the number on the dice.
Please click Next to continue.

Section 2 Part 3: Dice and Cups

Second question:

You may now earn some money for a charity. You determine how much is donated by throwing your dice twice as soon as you are asked to. The dice is 10-sided. The higher the number on the dice, the more payoff the charity might receive. If you reported a 1 and the question is selected for payment, we will donate GHC 0,20, if you throw a 2, we will donate GHC 0,40 and so on and so forth. The payoffs are displayed in the table below.

Dice	1	2	3	4	5	6	7	8	9	10
Payoff	0,20	0,40	0,60	0,80	1	1,20	1,40	1,60	1,80	2

Your first throw serves to make sure that the dice is working properly.

Your second throw determines how much the charity might receive if this question is selected for payment.

You may of course throw the dice more than twice. However, only the second throw counts.

Please click Next to continue.

Section 2 Part 3

If this question is selected for payment, to which organisation would you like to spend the money to?

Please select one of the charities below.

- Kasapa Centre (charity supporting children's and youth education in Ghana)
- Women Support Activist Group (WOSAG) (aims to improve the quality of life of women in Ghana)
- Ocommunity Home in Haatso /Accra (orphanage giving homeless children a new home)
- From heart to hand (financial support of families in Ghana)
- Lepers Aid Committee (LAC) (support –provision of goods and services- of people suffering from leprosy or disability due to leprosy)

Please press Next and roll the dice!

Section 2 Part 3: Role Dice

Please roll the dice now.	
Please roll the dice a second time and report the number on the dice.	
Please click Next to continue.	

Section 2 Part 3: Completed

You finished section 1 and 2 and the dice game! Please put dice and the cup aside. You will not need it anymore.

This is the last part of today's session. Please, answer all upcoming questions on the next pages truthfully.

We will now ask you questions to the experiment first.

Please press Next to start answering questions regarding the activities in today's session.

4 Questionnaire

4.1 Questions on the Experiment

Questions regarding today's session I

Q1. How interesting were the activities in general for you? Rate on a scale from 0 to 10 whereas 0 means "not at all interesting" and 10 "very interesting"
© 1 © 2 © 3 © 4 © 5 © 6 © 7 © 8 © 9 © 10
Q2. How hard have you tried to understand all activities to the best of your ability? Rate on a scale from 0 to 10 whereas 0 means "have not tried at all" to 10 "have tried very hard". You may grade your answers with values in between.
0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10
Q3. How much did you enjoy working on the production task the first time (Part1)? Rate on a scale from 0 to 10 whereas 1 means "did not enjoy it at all" and 10 "enjoyed it a lot". You may grade your answers with values in between.
0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10
Q4. How hard have you tried to get as many right answers as possible in the production task the first time (Part1)? Rate on a scale from 1 to 10 whereas 0 means "did not try at all" and 10 "tried a lot". You may grade your answers with values in between.
0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10
Q5. How frequent have you worked on tasks such as the production task in the past?
○ Never ○ Rarely ○ Sometimes ○ Often ○ Very Often
On the next page, we will ask you some further questions regarding today's session.

4.1.1 Seller

Questions regarding today's session II

ate on a scale from 1 to 10 whereas 0 means "very unsatis very unsatisfied 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8	luction phase (Part 3)? fied" and 10 "very satisfied". You may grade your answers with values in between.
very unsatisfied 1 2 3 4 5 6 7 8 3. Recall the situation when you entered the contract. Try to output you expected to produce? payoff you expected to receive from the buyer?	fied" and 10 "very satisfied". You may grade your answers with values in between. very satisfied 9 10
1 2 3 4 5 6 7 8 6 3. Recall the situation when you entered the contract. Try to output you expected to produce? payoff you expected to receive from the buyer?	9 0 10
23. Recall the situation when you entered the contract. Try to output you expected to produce? payoff you expected to receive from the buyer?	
OHE	
payoff you expected to receive from the alternative ma	arket?
GHC	
payoff you expected to receive in total?	

Q4. When you got informed about your p performance/payoff?	formance and your payoff after the task, have you compared it to your expected	
○ Yes ○ No		
Q5. If the answer to your last question wa	"yes", to which number have you compared your payoff to?	
O I compared it to my expect	d output	
 I compared it to my expect 	d payoff	
I compared it to the payoff	f the buyer	
Something else		
•	ling were you to fulfill the promise you made to the buyer? is 0 means "not at all willing" and 10 "very willing". You may grade your answers with values in	
not at all willing	very willing	
0 1 0 2 0 3 0 4 0 5 0	6 0 7 0 8 0 9 0 10	
Q7. Do you find that the contract with the Please rate on a scale from 0 to 10 where	uyer was overall fair? is 0 means "not fair at all" and 10 "very fair". You may grade your answers with values in between	L
not fair at all	very fair	
0 1 0 2 0 3 0 4 0 5 0	6 0 7 0 8 0 9 0 10	
Q8. How entitled have you felt over your please rate on a scale from 0 to 10 where between.	oduce in the production task in Part 3? is 0 means "not entitled at all" and 10 "very entitled". You may grade your answers with values in	
not entitled	very entitled	
0 1 0 2 0 3 0 4 0 5 0	6 0 7 0 8 0 9 0 10	

	our output and learnt how much you produced, how have you felt? I felt joyful I was surprised Something else
Q10. Have you felt/ Do you feel Answer on a scale from 0 to 10 not at all	sympathetic to the buyer? whereas 0 means "not at all"to 10 "very much". You may grade your answers with values in between. very much
Q11. Do you think that your perf	© 5
my own abilities	luck
© 1 © 2 © 3 © 4	© 5 © 6 © 7 © 8 © 9 © 10

Questionnaire

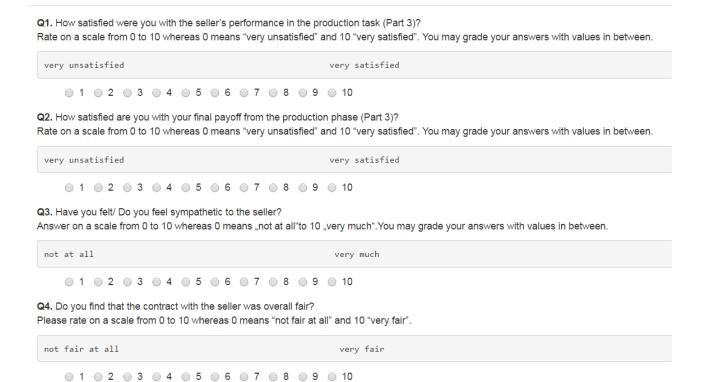
You completed all questions about today's session!

On the next pages, we will ask you questions about yourself and your opinions.

Please press Next to start answering these questions.

4.1.2 Buyer

Questions regarding today's session II



Q5. What do you think is the major reason why the seller behaved in the way he did?	
 The seller wanted to maximize his/her payoff The seller probably generally shows that kind of commitment to promises. The seller has never seen me in person and therefore does not feel obliged to fulfill the promise. The seller was not judged by anybody. The seller produced less than he/she expected and felt disappointed about his/her performance The seller produced more than he/she expected. Selling more to the outside option would not have made a big difference for the seller payoff. The seller produced more than he/she expected and felt joyful and generous. Else 	ər's
Q6. Put yourself in the shoes of the seller. What would you have done?	
I would have held my promise	
I would have taken everything from the buyer	
I would have taken part of the promised money from the buyer	
□ I do not know	
Q7. How do you think SHOULD a seller behave in a contract?	
I think a seller should always hold the promise made no matter what.	
I think it depends on the circumstances. If a seller has financial problems, it is ok not to hold a promise.	
I think if a seller made a promise to a buyer and the buyer cannot offer the highest price in the market, the buyer should either increase the price or the seller should sell to some other buyer	i

Questionnaire

You completed all questions about today's session!

On the next pages, we will ask you questions about yourself and your opinions.

Please press Next to start answering these questions.

4.2 Locus of Control

Personal Opinions

In the following table you see 6 pairs of statements that always consist of a statement A and a statement B. For each of the pairs please indicate with which of the two statements you agree most. Statement A Statement B I Agree 1 A. In the long run the bad things that happen to us are balanced by the good of ability, ignorance, laziness, or all three. Slightly more with B Much more with B 2 A. What happens to me is my own B. Sometimes I feel that I don't have Much more with A
 Slightly more with A doing. enough control over the direction my life is Slightly more with B Much more with B 3 A. With enough effort we can wipe out B. It is difficult for people to have much Much more with A
 Slightly more with A political corruption. control over the things politicians do in Slightly more with B Much more with B 4 A. No pain no gain. B. Sometimes hard work is not enough to $\quad \ \ \ \, \bigcirc$ Much more with A $\ \ \, \bigcirc$ Slightly more with A be successful. Slightly more with B Much more with B

5	A. Nature provides everything we need.	B. Men have to make nature productive.	 Much more with A Slightly more with A Slightly more with B Much more with B
6	A. God is taking care of us. If we pray he will open opportunities for us.	B. God encourages us to be the architect of our own fortune.	 Much more with A Slightly more with B Much more with B

4.3 Self-Evaluation Scale

Statements I

Q1. I am confident I get the success I deserve in life.				
Strongly Disagree Disagree Neutral Agree Strongly Agree				
Q2. Sometimes I feel depressed.				
Strongly Disagree Disagree Neutral Agree Strongly Agree				
Q3. When I try, I generally succeed.				
Strongly Disagree Disagree Neutral Agree Strongly Agree				
Q4. Sometimes when I fail I feel worthless.				
 Strongly Disagree Disagree Neutral Agree Strongly Agree 				
Q5. I complete tasks successfully.				
 Strongly Disagree Disagree Neutral Agree Strongly Agree 				
Q6. Sometimes, I do not feel in control of my work.				
 Strongly Disagree Disagree Neutral Agree Strongly Agree 				

Q7. Overall, I am satisfied with myself.
Strongly Disagree Disagree Neutral Agree Strongly Agree
Q8. I am filled with doubts about my competence.
 Strongly Disagree Disagree Neutral Agree Strongly Agree
Q9. I determine what will happen in my life.
 Strongly Disagree Disagree Neutral Agree Strongly Agree
Q10. I do not feel in control of my success in my career.
 Strongly Disagree Disagree Neutral Agree Strongly Agree
Q11. I am capable of coping with most of my problems.
Strongly Disagree Disagree Neutral Agree Strongly Agree
Q12. There are times when things look pretty bleak and hopeless to me.
 Strongly Disagree Disagree Neutral Agree Strongly Agree

4.4 Optimism

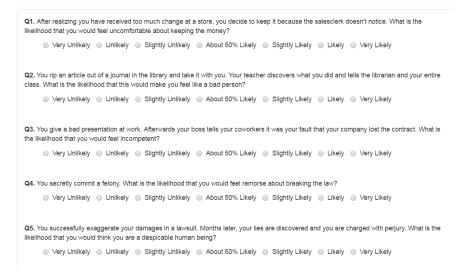
Statements II

Q1. In uncertain times, I usually expect the	e best.
 Strongly Disagree Disagree 	Neutral Agree Strongly Agree
Q2. It's easy for me to relax.	
 Strongly Disagree Disagree 	Neutral Agree Strongly Agree
Q3. If something can go wrong for me, it v	dll
Q3. If something can go wrong for me, it v	/III.
 Strongly Disagree Disagree 	Neutral Agree Strongly Agree
Q4. I'm always optimistic about my future.	
 Strongly Disagree Disagree 	Neutral Agree Strongly Agree
Q5. I enjoy my friends a lot.	
 Strongly Disagree Disagree 	Neutral Agree Strongly Agree
Q6. It's important for me to keep busy.	
 Strongly Disagree Disagree 	Neutral Agree Strongly Agree

Q7. I hardly ever expect things to go my way
Q8. I don't get upset too easily.
○ Strongly Disagree ○ Disagree ○ Neutral ○ Agree ○ Strongly Agree
Q9. I rarely count on good things happening to me.
Q10. Overall, I expect more good things to happen to me than bad.
Q11. If someone does me a favor, I am prepared to return it.
Q12. I go out of my way to help somebody who has been kind to me before.
Q13. I am ready to undergo personal costs to help somebody who helped me before.

4.5 Guilt and Shame Aversion

Statements to rate III



Q6. You make a mistake at work and find out a coworker is blamed for the error. Later, your coworker confronts you about your mistake. What is the likelihood that you would feel like a coward?
○ Very Unlikely ○ Unlikely ○ Slightly Unlikely ○ About 50% Likely ○ Slightly Likely ○ Likely ○ Very Likely
Q7.At a coworker's housewarming party, you spill red wine on their new cream-colored carpet. You cover the stain with a chair so that nobody notices your mess. What is the likelihood that you would feel that the way you acted was pathetic?
Very Unlikely Slightly Unlikely About 50% Likely Slightly Likely Unlikely Very Likely Very Likely
Q8. You lie to people but they never find out about it. What is the likelihood that you would feel terrible about the lies you told?
○ Very Unlikely ○ Unlikely ○ Slightly Unlikely ○ About 50% Likely ○ Slightly Likely ○ Likely ○ Very Likely

Questionnaire

You completed the block of questions about your personal opinions.

We are nearly finished and some last questions personal questions follow on the next two pages.

Please press Next to start answering these questions.

4.6 Other Questions

Other

	How many times have you participated in an experimental study before? (If you have never cipated before in an experiment, type in "0")
Q2.	How many other participants in the room do you know in person?
Q3.	Why did you participate in the study?
	Joy Boredom Interested in Science Money Other

4.7 Sociodemographical Questions

Social

Q 2.	Are you a bachelor, master student or PhD student?
	Bachelor
	● Master
	● PHD
Q 3.	Before your studies at university: Did you go to a boarding school?
	○ Yes ○ No
Q4.	What do you study?
	Business/Economics
	Agricultural Sciences
	Engineering
	Psychology/Medicine
	Natural Sciences(Biology, Chemistry,)
	Mathematics/Informatics/IT
	Humanities
	● Teaching
	© Else

Q6. Do you have a job/business besides your studies? If your answer was yes to the last question, what is/are your job(s)? (If you do not have job, enter "none" in the field)
Q7. After your graduation, where/how would you prefer to work?
Self-Employed
Public Service
○ Wage Labor
■ I do not mind
Q8. In which sector do you want to work?
Management (Production, Hospitality,Retail,)
○ Teacher
 Technician/Associate (in health, legal, social, cultural, engineering, business, science, information and communication center)
Service Sector / Sales
Agriculture, Fishery, Forestry
© Else
Q9. How much money do you have at your disposal in a month taking all together: income from parents, stipends, money from jobs/businesses?
GHC
Q10. In which region have you grown up?
Ashanti

with he you (mainly) mainlinear or (mainly) patital chair
(Mainly) Matrilineal
(Mainly) Patriarchal
O Neither
Q12. How many brothers and sisters do you have that are
a. Older than you
b. Younger than you
Q1. What language do you normally speak at home?
○ Twi ○ English ○ Ewe ○ Dagbani ○ Dangme ○ Ga ○ Nzemaa ○ Kasem ○ Gonja ○ Other
Q13. Do you belong to a religion or religious denomination? To which one?
None Christian Muslim Traditional Other

	Catholic
	Orthodox
	© Coptic
	Protestant mainline (Anglican, Lutheran, Methodist, Presbetaryan, Baptist, Quaker/ Friends, Mennonite, Reformed, Calvinist)
	Protestant non-mainline (Pentecostal, Charismatic, Independent, Church of Christ, Zionist Christian Ch
	Seven Days Adventist
	○ Jehovah Witness
	○ Mormon
	Other
Q15.	Apart from weddings and funerals, about how often do you attend religious services these days?
	More than once a week
	Once a week
	Once a month
	Only on special Holy days
	Once a year
	Cless often
	Never, practically never
Q16.	And with which of the following statements do you agree most? The basic meaning of religion is:
	○ To make sense of life after death
	To make sense of life in this world

5 The End

Questionnaire

You completed the questionnaire!

We wait now for all other participants to finish the questionnaire. We ask for your patience. Please stay seated and calm!

When everybody is ready you will get your payoff information for all the different activities today.

Please press Next!

Thank you for your participation!

You completed the whole session for today.

Please remain seated and calm until your number is called. Then proceed to the cashier.

If you are interested in a certificate of appreciation for participating, please leave your name and email address at the registration desk.

We appreciate that you took part in our experiment!