Nastiness in Groups

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Online Appendix E. Experimental Protocols (English Translation)

Note: Appendix F containing the experimental protocols in the original languages is available as part of the replication package at Harvard Dataverse at https://doi.org/10.7910/DVN/FVPDFB.

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I. EXPERIMENTAL INSTRUCTIONS
EXPERIMENT 1: UNIVERSITY STUDENTS

English translation (instructions were given in Slovak language)

1. Greeting and introductory instructions for the whole class

[To the whole class at the same time, when seated]
Hello! Please, take your seats. My name is *(experimenter's name)*.
Please, let me double-check that none of you have previously participated in this research, you are students of the Technical University of Košice, and all of you have Slovak citizenship. Is it so? *[if not, cannot participate]*

Today you will participate in several activities. The activities will altogether take about an hour and a half. For your today's participation and completion of tasks, you will earn at least 5 euro, but you can earn as much as 12.50 euro, depending on your decisions and the decisions of others. As soon as we finish today, you will be paid 5 euro. We will be able to calculate the remaining part after the completion of the whole research. Payoffs will be ready for collection at the beginning of December. All information regarding dates and places of where to pick up payoffs will be published at web-site prieskumtuke.sk and you can also find the link at your dorm's Facebook page. Places where to pick payoffs will be available on the main university campus as well as university dorms.

If at any time you decide that you do not wish to participate for any reason, you are of course free to leave whether we have started the activities or not. If you decide to leave before completing all tasks, you will get 2 euro.

Everyone who wants to participate has to draw a set of stickers with a random ID from this envelope. You will also get a card, on which you are required to place one of the stickers. This will be your ID card. You can also find the payoffs information web-site address on this card. Please, keep the card at a safe place, since you will have to show the card when getting paid. If you lose the card, we will not be able to pay you. In case you are worried you could lose the card by then, we will also accept a photo of your ID card taken together with your national ID card. Then, you will show us this photo on your mobile phone.

Your task will be to make some decisions. You will be making all decisions using your ID number only, which you will have in the form of stickers. You will be placing the stickers on your answer sheets. You will never use your name. We will only need your name for completing the payment receipt, and you will not place your sticker on it. This will ensure your complete anonymity. This document is required for administrative purposes and researchers will not have access to it.

You should understand that we will not use our money. It is money given to us by Max Planck Institute in Munich for doing these activities with you.

Now, please, read the informed consent and if you agree to participate, please, sign it. One copy remains with you, and we will collect the other copy. If you already know that you do NOT want to do the activities, please leave the room now.
[collect consent forms – one for us, one for them]

From now on, please, do not talk to each other. If you have any questions, raise your hand.
Do you have any questions?

Alright. Everyone who wants to participate will pick a set of stickers from this envelope. You will also receive an empty ID card.
[once finished:]

Please, place a sticker on the card.
Now, take a look at your ID number. If your ID starts with number 1, take all your belongings with you, and follow colleague XX. If your ID starts with number 2, follow colleague XX. If your ID starts with number 3, please, stay here with me.

2. Treatments T1 – T3

[each treatment in a separate room]

[T1 – *Individual* condition]

[T2 – *GroupContext_Hidden* condition]

[T3 – *GroupContext_Observed* condition]

2.1 Introduction

Hello, my name is XXX. Please sit at a place with an envelope.
[after they are seated]
We will go through some activities together.

[T1 – *Individual* condition]
As we said, you can earn some money in these activities.

[T3 – *GroupContext_Observed* condition]
In these activities, you will be randomly assigned to groups of three. Each of you will be randomly assigned to another two participants in this room. I will tell you where you will sit.
[Instruct them to sit in rows]
Please, take a look at your ID sticker. A letter C through Z denotes your group. There are always three people with the same letter in this room. Now, take your seats according to your letters. All of you with letter C, please take a seat here, all with D here… This is also how you know who exactly your group members are.

[T2 – *GroupContext_Hidden* condition]
In these activities, you will be randomly assigned to groups of three. Each of you will be randomly assigned to the other two participants of this research from a different day. You will not learn, to whom you are assigned to – neither today nor after completing all activities.
All three group members can earn some money in these activities. Importantly, all group members will be paid equally. Hence, if we are saying how much you will get, it means that not only you will get this amount, but also the other two members of the group will get the amount. For instance, if you get one euro, it means that each group member will get one euro.
[T3 – *GroupContext_Observed* condition]
All three group members can earn some money in these activities. Importantly, all group members will be paid equally. Hence, if we are saying how much you will get, it means that not only you will get this amount, but also the other two members of the group will get the amount. For instance, if you get one euro, it means that each group member will get one euro.

Each activity consists of a few tasks and a few guesses. You will, however, not be rewarded for each task. After we finish, the computer will randomly pick one task, which will determine your reward. In addition, it will randomly draw one guess. If your guess is correct, you will receive an additional 2 euro. Therefore, you have to be careful and pay attention to every decision you make, since any of the decisions can count for payment.
Please do not talk to anyone else, or you will have to leave. This is very important. If one talks to others about the activity, it is possible that the person spoils the activity for everyone.
Do you have any questions?
[Answer questions if there are some.]

First thing: please, turn off your mobile phones and put them in your bags. You can only have a pen on your desk.
[wait]

Please, take the large envelope from your desk. Open it, and you will find three smaller envelopes: A, B, and C. Take them out from the large envelope, but do not open them yet.
I will always tell you when it is time to take a new sheet from one of the three envelopes. Until I tell you, do not remove and look at any of the papers.

2.2 Joy of Destruction game (JDG)

[Poster]
We will now start with the first [second] activity.

1. [Partner]

[If JDG as a first activity:]
[T1 – *Individual* condition]
In this activity, you are matched with a randomly chosen participant from a different day. The person that you are paired with goes through these activities and is asked to do the same decisions as you will do now. This is important as the amount of money you will earn depends on your decisions and on the decisions of the person you are matched with. The income of the

other person also depends on your decision. The person also knows that he/she is paired with a person from a different day.

[T2 – *GroupContext_Hidden* condition] + [T3 – *GroupContext_Observed* condition]
In this activity, you are matched with a randomly chosen group from a different day. The group that you are paired with goes through these activities and is asked to make the same decisions as you will do now. This is important as the amount of money you will earn depends on your decisions and on the decisions of the group you are matched with. The income of the other group also depends on your decision. The group also knows that it is paired with a group from a different day.

[If JDG as a second activity:]

In this activity, you are again paired with a different randomly chosen participant [*group*] from a different day. It is not the same person [*group*] as in the previous task.

2. [PROCEDURE]

I will now show what your task is using this picture *[show them the poster].* You can now remove a small version of the picture from the envelope B. Please, do not remove any other paper.
In this picture, I'll use the red figure [*group*] to represent you [*your group*] [*point to the red figure/group in the picture]*, and the blue figure [*group*] to represent the other person [*group*] with whom you are matched [*point to the blue figure/group in the picture]*.
Both you and the other person [*group*] receive 10 euro, which I show with these coins *[point to the coins next to the red and blue figure/group in the picture].* You [*your group*] *[point to the red figure/group in the picture]* then have to decide between two options. You can reduce the other person's [*group's*] money or you can leave the money unchanged *[show these options in the picture – red figure/group]*.
Reducing the other person's [*group's*] money will cost you 50 cents [*show the 50 cents in the picture]*. By paying 50 cents, you reduce the other person's [*group's*] income by 5 euro [*point this in the picture*]. The other person [*group*] is asked to make the same decision [*point to the blue figure/group in the picture*]. He/she is [*They are*] choosing between reducing your money by 5 euro and leaving your money unchanged *[show these options in the picture – blue figure/group].*
The other person [*group*] has to pay 50 cents if he/she [*they*] wants to reduce your money.
What you get therefore depends on your decision and the decision of the other person[*group*].
- If the other person [*group*] decides to leave the money unchanged and you also decide to leave the money unchanged *[show the chosen options in the picture as you speak],* then both of you [*both groups*] will earn 10 euro *[show the payoffs]*.
- If the other person [*group*] decides to leave the money unchanged and you choose to reduce the person's [*group's*] money *[show the chosen options in the picture]*, then you will earn 9 euro and 50 cents and the other person [*group*] will earn 5 euro *[show the payoffs]*.
- If the other person [*group*] decides to reduce your money and you choose to leave the money unchanged *[show the chosen options in the picture]*, then you will earn 5 euro and the other person [*group*] will earn 9 euro and 50 cents *[show the payoffs*].
- If the other person [*group*] decides to reduce your money and you also choose to reduce the person's [*group's*] money *[show the chosen options in the picture]*, both of you [*both groups*] will earn 4 euro and 50 cents [*show the payoffs]*. This is because you have 10 euro at the

beginning, then you pay 50 cents to reduce the person's [*group's*] money, which would be 9 euro and 50 cents, but the person [*group*] also decided to reduce your money by 5 euro, which makes it 4 euro and 50 cents.

3. [HOW A GROUP MAKES A DECISION]

[T2 – *GroupContext_Hidden* condition]
IF AS FIRST ACTIVITY:
Now, please, listen carefully, how your group will make a decision. The other group will make their decision the same way.
You, as well as the other two members of your group, will be asked to make your decisions. After completing all activities, the computer will randomly pick one of these decisions – either your decision, the decision of the second member of your group, or the decision of the third member of your group. This decision will determine the payoff for all three members of your group, as well as all three members of the other group.
In other words, the decision of your group will be determined by the decision of one of its members, but you will not know whether it will be your decision or the decision of another group member.
Also, you will not learn how the other two members of your group decided, nor will they learn how you decided. Members of the other group will also not learn how you personally decided.
Is everything clear?
IF AS SECOND ACTIVITY:
Your group will make their decision the same way as in the previous activity.
This means that the decision of your group will be determined by one of its members, but you will NOT learn, whether by your decision or the decision of another group member. Also, you will not learn how other group members decided and they will not learn how you decided.

[T3 – *GroupContext_Observed* condition]
IF AS FIRST ACTIVITY:
Now, please, listen carefully, how your group will make a decision. The other group will make their decision the same way.
You, as well as the other two members of your group, will be asked to make your decisions. After completing all activities, we will randomly pick one of these decisions – either your decision, the decision of the second member of your group, or the decision of the third member of your group. This decision will determine the payoff for all three members of your group, as well as all three members of the other group.
How will we choose the group member whose decision will count? We have a bag with three balls numbered 1 – 3 [*show*], where each number represents one of the three people in your group. Your group number is the last digit in your ID. After completing all activities, we will randomly draw a number between 1 and 3. If it is number 1, all group members will be paid upon the decision of group member 1. If it is number 2, all group members will be paid upon the decision of group member 2. If it is number 3, all group members will be paid upon the decision of group member 3.
In other words, the decision of your group will be determined by the decision of one of its members, and you will know whether it will be your decision or the decision of another group member.

Also, you will learn how the other two members of your group decided, and they will learn how you decided. After all of you make your own decision, I will ask you to show your answer sheets within your group. At the same time, I will ask you to mark other group members' decisions into your answer sheet. Members of the other group will not learn how you personally decided.
You are not allowed to communicate, with the exception when I allow you to do so. Otherwise, you will have to leave the room without getting paid.
Is everything clear?
IF AS SECOND ACTIVITY:
Your group will make their decision the same way as in the previous activity.
This means that the decision of your group will be determined by one of its members, and you will learn, whether by your decision or the decision of another group member. The other group members will later show you how they decided, and you will show your decision to them.
You are not allowed to communicate, with the exception when I allow you to do so.

4. [CONTROL QUESTIONS]

Please, remove the first paper, named "control questions" and denoted as "TASK 0" from envelope B. Do not remove any other paper.
Place your ID sticker in the top left corner of the paper.
All done?

First I will ask some questions to make sure everything is clear. The small picture will help you answer the questions. Please write your answers on the answer sheet.
[Always step aside when they are making the decision!]

All done?

Please check you have your ID sticker placed on the paper. Fold the paper in half and place it into your large envelope.

[If as a first activity only =>]
We will do the same in all tasks and I will collect your large envelopes at the end. This will ensure that your decisions will remain anonymous.

5. [DECISION 1 – Unconditional Decision]

Now we will start with task 1. Please, remove paper denoted as "TASK 1" from envelope B. Do not remove any other paper.

Place your ID sticker in the top left corner of the paper.
All done?

[T2 – *GroupContext_Hidden* condition]

Remember, the decision of your group will be determined by the decision of one of its members, but you will not learn whose decision will be chosen. Also, you will not learn how other group members decided.

[T3 – *GroupContext_Observed* condition]

Remember, the decision of your group will be determined by the decision of one of its members, and you will learn, whose decision will be chosen. Also, you will later show your decisions to each other within your group.

[Always step aside when they are making the decision!]
Now I will ask you to make your decision. If this task is chosen to determine your payoff, your decision will determine how much money you will get and how much money the other person will get.

What do you want to do if you do not know what the other person [*group*] has chosen? Do you want to pay 50 cents and reduce the other person's [group's] income by 5 euro? Or, do you want to leave the money unchanged?

Mark the option you want to choose in the answer sheet. Please think about your decision carefully. *[Leave a while to think about the decision]*

[T3 – *GroupContext_Observed* condition]

In the upper part of your answer sheet, mark your decision. Do not fill the lower part yet – at the end, you will mark your classmates' decisions. Please think about your decision carefully. *[Leave a while to think about the decision]*

Please make your decision now.

6. [BELIEFS]

Once you're done, place the paper back to your envelope B and remove the paper denoted as "GUESS 1".
Place your ID sticker in the top left corner of the paper.
All done?
What do you think the other person [*group*] has chosen?
If this guess is chosen to determine your payoff and your guess is correct, you will get an additional 2 euro.
Mark the option you want to choose in the answer sheet. *[Leave a while to think about the decision]*
[Please make your guess now.]

7. [GUESS 2 – other two participants]

Now turn to the next page denoted as "GUESS 2".

[T1 – *Individual* condition]
What do you think, how many participants from two randomly chosen participants in this room wanted to reduce the other person's income by 5 euro?

[T2 – *GroupContext_Hidden* condition] + [T3 – *GroupContext_Observed* condition]
What do you think, how many of the other two members of your group wanted to reduce the other group's income by 5 euro?

If this guess is chosen to determine your payoff and your guess is correct, you will get an additional 2 euro.
Mark the option you want to choose in the answer sheet. *[Leave a while to think about the decision]*

[Please make your guess now.]
Please check you have your ID sticker placed on the paper. Fold the paper in half and place it into your large envelope.

8. [TASK 2 - Conditional Decisions]

Now we will turn back to the previous sheet. Please, remove it from envelope B and proceed to page denoted as "TASK 2".
Done?

The other person [*group*] is deciding between paying 50 cents to reduce your money by 5 euro and leaving the money unchanged. At the moment, we do not know the decision of the other person [group].

In this task, I will ask you to make a decision for both possible cases, i.e., how will you decide if the other person [*group*] decided to leave your money unchanged and how will you decide if the other person [*group*] decided to reduce your money. If this task is chosen to determine your payoff, I will first look at the decision of the other person [*group*] and then at your decision. Based on your decision, your payoff and the other person's [*group's*] payoff will be determined.

[T2 – *GroupContext_Hidden* condition]
Remember, the decision of your group will be determined by the decision of one of its members, but you will not learn whose decision was chosen. Also, you will not learn how other group members decided.
[T3 – *GroupContext_Observed* condition]
Remember, the decision of your group will be determined by the decision of one of its members, and you will learn whose decision was chosen. Also, you will later show your decisions to each other within your group.

The first option is depicted in the upper section of the paper: the other person [*group*] chose to leave your money unchanged.
The second option is depicted in the lower section of the paper: the other person [*group*] chose to pay 50 cents to reduce your money by 5 euro.
Now you can make your decisions – what you will do in both options. *[Leave a while for thinking about the decision]*

[Please make your decision now.]

[T3 – *GroupContext_Observed* condition]

9. Mark decisions of other group members

Within your group, please exchange your answer sheets and mark/write down the answers of the other group members into your answer sheet.
Do not talk to anybody, only forward your answer sheets.

10. [END OF ACTIVITY]

All done?
Please check you have your ID sticker placed on the paper. Fold the paper in half and place it into your large envelope.

Now you can also place small pictures and empty envelopes B in the large envelope.
Please do not talk to anyone.

[Remove the poster]
[If JDG was a first activity: Continue with PDG]

2.3 Prisoner's Dilemma game (PDG)

[*Poster*]
[If PDG as a second activity:]

We will now start with the second activity.

1. [Partner]

[If PDG as a first activity:]

[T1 – *Individual* condition]
In this activity, you are matched with a randomly chosen participant from a different day. The person that you are paired with goes through these activities and is asked to do the same decisions as you will do now. This is important as the amount of money you will earn depends on your decisions and on the decisions of the person you are matched with. The income of the other person also depends on your decision. The person also knows that he/she is paired with a person from a different day.

[T2 – *GroupContext_Hidden* condition] + [T3 – *GroupContext_Observed* condition]
In this activity, you are matched with a randomly chosen group from a different day. The group that you are paired with goes through these activities and is asked to make the same decisions as you will do now. This is important as the amount of money you will earn depends on your decisions and on the decisions of the group you are matched with. The income of the other group also depends on your decision. The group also knows that it is paired with a group from a different day.

[If PDG as a second activity:]

In this activity, you are again paired with a different randomly chosen participant [*group*] from a different day. It is not the same person [*group*] as in the previous task.

2. [Procedure]

I will now show what your task is using this picture *[show them the poster].* You can now remove a small version of the picture from the envelope A. Please, do not remove any other paper.
In this picture, I'll use the red figure [*group*] to represent you [*your group*] [*point to the red figure/group in the picture]*, and the blue figure [*group*] to represent the other person [*group*] with whom you are matched [*point to the blue figure/group in the picture]*.
Both you and the other person [*group*] receive 8 euro, which I show with these coins *[point to the coins next to the red and blue figure/group in the picture].* You [*Your group*] *[point to the red figure/group in the picture]* then have to decide between two options. You can take 4 euro from the other person [*group*] to get 2 euro for yourself [*your group*] *[show this option in the picture – red figure/group]*, or you can leave the money unchanged *[show this option in the picture – red figure/group]*. The other person [*group*] is asked to make the same decision [*point to the blue figure/group in the picture*]. He/she is [*They are*] choosing between taking 4 euro from you *[show this option in the picture – blue figure/group]* and leaving your money unchanged *[show this option in the picture – blue figure/group].* If this person [*they*] took 4 euro from you, he/she [*they*] would get 2 euro.
What you get therefore depends on your decision and the decision of the other person [*group*].
- If the other person [*group*] decides to leave the money unchanged and you also decide to leave the money unchanged *[show the chosen options in the picture as you speak],* then both of you [*both groups*] will earn 8 euro *[show the payoffs]*.
- If the other person [*group*] decides to leave the money unchanged and you choose to take 4 euro from the person [*group*] to get 2 euro for yourself *[show the chosen options in the picture]*, then you will earn 10 euro and the other person [*group*] will earn 4 euro *[show the payoffs]*.
- If the other person [*group*] decides to take 4 euro from you and you choose to leave the money unchanged *[show the chosen options in the picture]*, then you will earn 4 euro and the other person [*group*] will earn 10 euro *[show the payoffs*].
- If the other person [*group*] decides to take 4 euro from you and you choose to take 4 euro from the other person [*group*] *[show the chosen options in the picture]*, both of you [*both groups*] will earn 6 euro [*show the payoffs]*. This is because you have 8 euro at the beginning, then you get 2 euro by taking 4 euro from the person [*group*], which would be 10 euro, but the other person [*group*] also takes 4 euro from you, which makes it 6 euro.

3. [How a group makes a decision]

[T2 – *GroupContext_Hidden* condition]

IF AS FIRST ACTIVITY:
Now, please, listen carefully, how your group will make a decision. The other group will make their decision the same way.

You, as well as the other two members of your group, will be asked to make your decisions. After completing all activities, the computer will randomly pick one of these decisions – either your decision, the decision of the second member of your group, or the decision of the third member of your group. This decision will determine the payoff for all three members of your group, as well as all three members of the other group.
In other words, the decision of your group will be determined by the decision of one of its members, but you will not know whether it will be your decision or the decision of another group member.
Also, you will not learn how the other two members of your group decided, nor will they learn how you decided. Members of the other group will also not learn how you personally decided.
Is everything clear?

IF AS SECOND ACTIVITY:
Your group will make their decision the same way as in the previous activity.
This means that the decision of your group will be determined by one of its members, but you WILL NOT LEARN, whether by your decision or the decision of another group member.
Also, you will not learn how other group members decided and they will not learn how you decided.

[T3 – *GroupContext_Observed* condition]

IF AS FIRST ACTIVITY:
Now, please, listen carefully, how your group will make a decision. The other group will make their decision the same way.
You, as well as other two members of your group will be asked to make your decisions. After completing all activities, we will randomly pick one of these decisions – either your decision, the decision of the second member of your group, or the decision of the third member of your group. This decision will determine the payoff for all three members of your group, as well as all three members of the other group.
How will we choose a group member, whose decision will count? We have a bag with three balls numbered 1 – 3 [*show*], where each number represents one of the three people in the group. Your group number is the last digit in your ID. After completing all activities, we will randomly draw a number between 1 and 3. If it is the number 1, all group members will be paid upon the decision of group member 1. If it is the number 2, all group members will be paid upon the decision of group member 2. If it is the number 3, all group members will be paid upon the decision of group member 3.
In other words, the decision of your group will be determined by the decision of one of its members, and you will know whether it was your decision, or the decision of another group member.
Also, you will learn how the other two members of your group decided, and they will learn how you decided. After all of you make your own decision, I will ask you to show your answer sheets within your group. At the same time, I will ask you to mark other group members' decisions into your answer sheet. Members of the other group will not learn how you personally decided.
You are not allowed to communicate, with the exception when I allow you to do so. Otherwise, you will have to leave the room without getting paid.
Is everything clear?

IF AS SECOND ACTIVITY:
Your group will make their decision the same way as in the previous activity.
This means that the decision of your group will be determined by one of its members, and you WILL LEARN, whether by your decision or the decision of another group member. The other group members will later show you how they decided, and you will show your decision to them.
You are not allowed to communicate, with the exception when I allow you to do so.

4. [CONTROL QUESTIONS]

Please, remove the first paper, named "control questions" and denoted as "TASK 0" from envelope A. Do not remove any other paper.
Place your ID sticker in the top left corner of the paper.
All done?

First I will ask some questions to make sure everything is clear. The small picture will help you answer the questions. Please write your answers on the answer sheet.
[Always step aside when they are making the decision!]
All done?
Please check you have your ID sticker placed on the paper. Fold the paper in half and place it in your large envelope.

[If as a first activity only =>]
We will do the same in all tasks and I will collect your large envelopes at the end. This will ensure that your decisions will remain anonymous.

5. [DECISION 1 - Unconditional Decision]

Now we will start with task 1. Please, remove paper denoted as "TASK 1" from envelope A. Do not remove any other paper.

Place your ID sticker in the top left corner of the paper.
All done?
[Always step aside when they are making the decision!]

[T2 – *GroupContext_Hidden* condition]

Remember, the decision of your group will be determined by the decision of one of its members, but you will not learn whose decision was chosen. Also, you will not learn how other group members decided.

[T3 – *GroupContext_Observed* condition]

Remember, the decision of your group will be determined by the decision of one of its members, and you will learn, whose decision was chosen. Also, you will show your decisions to each other within your group.

Now I will ask you to make your decision. If this task is chosen to determine your payoff, your decision will determine how much money you [*your group*] will get and how much money the other person [*group*] will get.

What do you want to do if you do not know what the other person [*group*] has chosen? Do you want to take 4 euro from the other person [*group*] to get 2 euro for yourself [*your group*]? Or, do you want to leave the money unchanged?

Mark the option you want to choose in the answer sheet. Please think about your decision carefully. *[Leave a while to think about the decision]*

[T3 – *GroupContext_Observed* condition]

In the upper part of your answer sheet, mark your decision. Do not fill the lower part yet – at the end, you will mark your classmates' decisions. Please think about your decision carefully. *[Leave a while to think about the decision]*

[Please make your decision now.]

6. [BELIEFS]

Once you're done, place the paper back to your envelope and remove the paper denoted as "GUESS 1".
Place your ID sticker in the top left corner of the paper.
All done?
What do you think the other person [*group*] has chosen?
If this estimate is chosen to determine your payoff and your guess is correct, you will get an additional 2 euro.
Mark the option you want to choose in the answer sheet. *[Leave a while to think about the decision]*
[Please make your guess now.]

7. [GUESS 2 – other two participants]

Now turn to the next page denoted as "GUESS 2".

[T1 – *Individual* condition]
What do you think, how many participants out of two randomly chosen participants in this room wanted to take 4 euro from the other person to get 2 euro for themselves?

[T2 – *GroupContext_Hidden* condition] + [T3 – *GroupContext_Observed* condition]

What do you think, how many of the other two members of your group wanted to take 4 euro from the other group to get 2 euro for their group?

If this guess is chosen to determine your payoff and your guess is correct, you will get an additional 2 euro.
Mark the option you want to choose in the answer sheet. *[Leave a while to think about the decision]*
[Please make your guess now.]

Please check you have your ID sticker placed on the paper. Fold the paper in half and place it into your large envelope.

8. [TASK 2 - Conditional Decisions]

Now we will turn back to the previous sheet. Please, remove it from envelope A and proceed to page denoted as "TASK 2".
Done?
The other person [*group*] is deciding between taking 4 euro from you to get 2 euro and leaving the money unchanged. At the moment, we do not know the decision of the other person *[group]*. In this task, I will ask you to make a decision for both possible cases, i.e., how will you decide if the other person [group] decided to leave your money unchanged and how will you decide if the other person [group] decided to take your money. If this task is chosen to determine your payoff, I will first look at the decision of the other person [group] and then at your decision. Based on your decision, your payoff and the other person's [*group's*] payoff will be determined.

[T2 – *GroupContext_Hidden* condition]

Remember, the decision of your group will be determined by the decision of one of its members, but you will not learn whose decision was chosen. Also, you will not learn how other group members decided.

[T3 – *GroupContext_Observed* condition]

Remember, the decision of your group will be determined by the decision of one of its members, and you will learn whose decision was chosen. Also, you will later show your decisions to each other within your group.

The first option is depicted in the upper section of the paper: the other person [*group*] chose to leave your money unchanged.
The second option is depicted in the lower section of the paper: the other person [*group*] chose to take 4 euro from you to get 2 euro for him/herself.

Now you can make your decisions – what you will do in both options. *[Leave a while for thinking about the decision]*
[Please make your decision now.]

Mark decisions of other group members

[T3 – *GroupContext_Observed* condition]

Within your group, please exchange your answer sheets and mark/write down the answers of the other group members into your answer sheet.

Do not talk to anybody, only forward your answer sheets.

9. [END OF ACTIVITY]

Are you all done?
Please check that you have your ID sticker placed on the paper. Fold the paper in half and place it into your large envelope.
Now you can also place small pictures and empty envelopes A in the large envelope.
Please do not talk to anyone.

[Remove poster]
[If PDG was a first activity: Continue with JDG]

2.4 Destruction Task

Now we are about to start with the third activity.
You will, for sure, be paid for one of the tasks making decisions about your own money. This is an additional task, in which you do not make decisions about your own money, but about money that will be given to the university for the purpose of improving the environment for students. This task will count with a probability of 50%. I have a bag with two balls: white and orange [*show the bag with two balls*]. After completing all activities, we will randomly choose one of the two balls. If we choose the white ball, your decision will have real consequences on the money that will be given to the university for the purpose of improving the environment for students. Remember, that your decision is entirely anonymous – you only use your ID and no one, including researchers, will not know what ID belongs to whom.
Please, open envelope C. You will find a voucher for 2 euro, a voucher for 0 euro and an empty small envelope. Please, place your ID sticker on the small envelope.
I will now explain your task.
This is a 2-euro voucher for the university for the purpose of improving the environment for students. You have two options: you can either send this voucher to university, or you can destroy it. To destroy the voucher, you need to tear it up and place it in the small envelope together with the untouched 0-euro voucher. If you want to send this 2-euro voucher to university, you need to place it into the envelope; at the same time, you need to tear up the 0-euro voucher and place it into the same envelope. This will assure your entire anonymity.
After completing the whole research, we will remove vouchers from the small envelopes and we will bring them to the university management without the ID codes. We will go through the vouchers together with the university management, and count the 2-euro and 0-euro vouchers. Afterward, the university will receive money for each untouched 2-euro voucher.

[T2 – *GroupContext_Hidden* condition]
You make your decision as in the previous activities. After completing all activities, we will pick an envelope of one group member and deliver it to the university management.
The decision of your group will be determined by the decision of one of its members, but you will not learn whose decision will be chosen. Also, you will not learn how other group members decided.
[T3 – *GroupContext_Observed* condition]
You make your decision as in the previous activities. After completing all activities, we will pick an envelope of one group member and deliver it to the university management.
The decision of your group will be determined by the decision of one of its members, and you will learn, whose decision will be chosen. Also, you will show your decisions to each other.

What will you do?
Please, make a decision and tear up the possibility you don't want and place both vouchers – the torn one and the untorn – into the envelope. *[Leave a while to think about the decision]*

[See the decisions of other group members]
[T3 – *GroupContext_Observed* condition]

Within your group, please exchange your envelopes and have a look at the decisions of other group members.
Do not talk to anybody, only forward your answer sheets.

Please check you have your ID sticker placed on the small envelope and place it in your large envelope.
Now you can also place the empty small envelope C into the large envelope.
I will now collect large envelopes from you.
[Continue with: T4-*Group* condition]

3. Group condition (T4)

We will now go through the same task, but you will be making decisions in groups of three people and will always have four minutes to come to a joint decision.
First I will assign each of you to a group at random.

Previously [T2 – *GroupContext_Hidden* condition] + [T3 – *GroupContext_Observed* condition]
These groups are not the same as groups in the previous tasks.

Please, draw a letter representing your group.
[Take the envelope "GROUPS" with group letters, shuffle cards and let each student pick a card.]
[After all students have a card:]
[Make students from the same group sit together so they can communicate]
All of you who picked a card AA, please, take a seat here; card BB here… Now you know who is in your group.
Importantly, each group member will have the same payoff. Hence, if we are saying how much you will get, it means that not only you will get this amount, but also the other two members of the group. For instance, if you get one euro, it means that each group member will get one euro.
Please, do not talk. I will always tell you when you are allowed to communicate within your group.
I will now hand out an envelope with answer sheets. In the envelope, you will find three smaller envelopes denoted as A, B, C, and three envelopes denoted as D. Please, remove them from the large envelope, but do not open them.

3.1 Prisoner's Dilemma (PDG)

1. [PARTNER]

We will start [if as the second activity: continue] with the task in which you have 8 euro and you decide, whether you want to take 4 euro from the other group to get 2 euro for your group, or you want to leave the money unchanged.

Please, remove a small picture depicting this situation from envelope A4.
In this task, your group is matched with a different group of three people from a different day. It is a different group than the one in the previous task.
The other group is asked to make the same decision. This group is also making their decision jointly and they have four minutes to make a joint decision.

2. [DECISION 1 - Unconditional Decision]

Please, remove the paper denoted as "TASK 1" from envelope A.
All three group members are now required to place their ID stickers in the top left corner of the paper.
All done?
[Always step aside when they are making the decision!]
Now I will ask you to make your decision. If this task is chosen to determine your payoff, your decision will determine how much money your group will get and how much money the other group will get.
What do you want to do if you do not know what the other group has chosen? Do you want to take 4 euro from the other group to get 2 euro for your group? Or, do you want to leave the money unchanged?
Please think about your decision carefully. You have 4 minutes' time to discuss and to come up to a group decision.
Mark the option you want to choose in the answer sheet. Once you are done, wait until all other groups are done.
Now you are allowed to communicate within your group.
[After 2 minutes: "Is any group still working?" If not, continue with the next task. If yes: "You still have 2 minutes."]
[after 4 minutes: Please, make your decision now.]
Please, do not talk anymore.

3. [GUESS 1 – the other group]

Please, proceed to the sheet denoted as "GUESS 1".
What do you think the other group has chosen?
If this guess is chosen to determine your payoff and your guess is correct, each of you will get an additional 2 euro.
Again, you have 4 minutes to discuss and agree on a group guess.
Now you are allowed to communicate within your group.
[After 2 minutes: "Is any group still working?" If not, continue with the next task. If yes: "You still have 2 minutes."]
[after 4 minutes: Please, make your decision now.]
Please, do not talk anymore.

4. [TASK 2 - Conditional Decisions]

Now, please turn to the page denoted as "TASK 2".
At the moment, we do not know the decision of the other group. In this task, I will ask you to make a decision for both possible cases.

The first option is depicted in the upper section of the paper: the other group chose to leave your money unchanged.
The second option is depicted in the lower section of the paper: the other group chose to take 4 euro from you to get 2 euro for him/herself.
[Step aside when they are making the decision!]
Now you can make your decisions on what you will do in both options.
Again, you have 4 minutes to discuss and agree on a group guess.
Now you are allowed to communicate within your group.
[After 2 minutes: "Is any group still working?" If not, continue with the next task. If yes: "You still have 2 minutes."]
[after 4 minutes: Please, make your decision now.]
Please, do not talk anymore.

5. [END OF TASK]

All done?
Please check you have all three ID stickers placed on the paper. Fold the paper in half and place it into your large envelope.
Now you can also place small pictures and empty envelopes A in the large envelope.
[If PDG was a first activity: Continue with JDG; Otherwise: Continue with Destruction Task]

3.2 Joy of Destruction (JDG)

1. [PARTNER]

We will now continue [if as a first activity: start] with the task in which you have 10 euro and you decide, whether you want to pay 50 cents and reduce the other group's income by 5 euro or you want to leave the money unchanged.
Please, remove a small picture depicting this situation from envelope B4.
In this task, your group is matched with a different group of three people from a different day. It is a different group than the one in the previous task.
The other group was asked to make the same decision. This group is also making their decision jointly and they have four minutes to make a joint decision.

2. [DECISION 1 - Unconditional Decision]

Please, remove the paper denoted as "TASK 1" from envelope B.
All three group members are now required to place their ID stickers in the top left corner of the paper.
All done?
[Always step aside when they are making the decision!]
Now I will ask you to make your decision. If this task is chosen to determine your payoff, your decision will determine how much money your group will get and how much money will get the other group.
What do you want to do if you do not know what the other group has chosen? Do you want to pay 50 cents and reduce the other group's income by 5 euro? Or, do you want to leave the money unchanged?

Please think about your decision carefully. You have 4 minutes' time to discuss and agree on a group decision.
Mark the option you want to choose in the answer sheet. Once you are done, wait until all other groups are done.
Now you are allowed to communicate within your group.
[After 2 minutes: "Is any group still working?" If not, continue with the next task. If yes: "You still have 2 minutes."]
[after 4 minutes: Please, make your decision now.]
Please, do not talk anymore.

3. [GUESS 1 – the other group]

Please, proceed to the sheet denoted as "GUESS 1".
What do you think the other group has chosen?
If this guess is chosen to determine your payoff and your guess is correct, each of you will get an additional 2 euro.
Again, you have 4 minutes to discuss and come up with a group guess.
Now you are allowed to communicate within your group.
[After 2 minutes: "Is any group still working?" If not, continue with the next task. If yes: "You still have 2 minutes."]
[after 4 minutes: Please, make your decision now.]
Please, do not talk anymore.

4. [TASK 2 - Conditional Decisions]

Now, please turn to the page denoted as "TASK 2".
At the moment, we do not know the decision of the other group. In this task, I will ask you to make a decision for both possible cases.
The first option is depicted in the upper section of the paper: the other group chose to leave your money unchanged.
The second option is depicted in the lower section of the paper: the other group chose to pay 50 cents to reduce your money by 5 euro.
[Step aside when they are making the decision!]
Now you can make your decisions – what you will do in both options.
Again, you have 4 minutes to discuss and come up with a group guess.
Now you are allowed to communicate within your group.
[After 2 minutes: "Is any group still working?" If not, continue with the next task. If yes: "You still have 2 minutes."]
[after 4 minutes: Please, make your decision now.]
Please, do not talk anymore.

5. [END OF TASK]

All done?
Please check you have all three ID stickers placed on the paper. Fold the paper in half and place it into your large envelope.
Now you can also place small pictures and empty envelopes B in the large envelope.
[If JDG was a first activity: Continue with PDG; Otherwise: Continue with Destruction Task]

3.3 Destruction Task

Now we are about to start with the third activity.
As I told you, you will, for sure, be paid for one of the tasks making decisions about your own money.
This is again an additional task, in which you do not make decisions about your own money, but about money that will be given to the university for the purpose of improving the environment for students.
This task will count with a probability of 50 %. As I told you, I have a bag with two balls: white and orange [*show the bag with two balls*]. After completing all activities, we will randomly choose one of the two balls. If we choose the orange ball, your next decision will have real consequences on the money that will be given to the university for the purpose of improving the environment for students. If we choose the white ball, your previous decision toward the university will count.
Remember, that your decision is entirely anonymous – you only use your ID and no one, including researchers, will not know what ID belongs to whom.
Please, open the envelope C. You will find a voucher for 2 euro, a voucher for 0 euro and an empty small envelope. Please, all group members now place your ID stickers on the small envelope.
I will now repeat your task.
This is a 2-euro voucher for the university for the purpose of improving the environment for students. You have two options: you can either send this voucher to university, or you can destroy it. After completing the whole research, we will remove vouchers from the small envelopes and we will bring them to the university management without the ID codes. We will go through the vouchers together with the university management, and count the 2-euro and 0-euro vouchers. Afterward, the university will receive money for each untouched 2-euro voucher.
What will you do?
Please, make a decision and tear up the possibility you don't want and place both vouchers – the torn and the untorn one – into the envelope.
Now you are allowed to communicate within your group.
[After 2 minutes: "Is any group still working?" If not, continue with the next task. If yes: "You still have 2 minutes."]
[after 4 minutes: Please, make your decision now.]
Please, do not talk anymore.
Please check you have all three ID stickers placed on the small envelope and place it in your large envelope.
Now you can also place the empty envelope C4 and group cards in the large envelope.
Now, each of you, please take one envelope D – you will need it in a while. Do not open it yet.
I will now collect large envelopes.
[Continue with Action Bias task]

4. ACTION BIAS TASK

K1 [*Individual* condition]
I would like each of you to take an individual seat and take an envelope D with you. We are about to go through the last, very short task.

I will hand out answer sheets.
Please, place your ID sticker on it.
Upon leaving this room, each of you will get a green [*yellow*] candy. Do you want to keep this green [*yellow*] candy, or do you prefer to get a yellow [*green*] candy?
Please, mark on the answer sheet, which candy you want.
All done?
Please, check you have your ID sticker placed on the paper, fold it in half, and shortly I will collect them.

K4 [*Group* condition]
We are about to go through the last, very short task.
I will hand out answer sheets.
Please, place all three ID stickers on it.
When leaving this room, each of you will get a green [*yellow*] candy. Do you want to keep this green [*yellow*] candy, or do you prefer to get a yellow [*green*] candy?
Now you are allowed to communicate within your group.
Please, mark on the answer sheet, which candy you want.
[After 2 minutes: "Is any group still working?" If not, continue with the next task. If yes: "You still have 2 minutes."]
[after 4 minutes: Please, make your decision now.]
Please check you have all three ID stickers placed on the paper, fold it in half, and shortly I will collect them.

5. AFTER ALL ACTIVITIES

Alright, we have gone through all activities. Once again, we would like to thank you for your participation. We would like to ask you not to talk about the activities with your classmates. In case you have any questions regarding the research, feel free to contact our colleague, Tomáš Želinský, whose contact details you can find in your informed consent form.
Now I would like to ask one of you to draw a ball from this bag – which will determine whether we will deliver vouchers to university from the first or the second round of activities.
[White: first round. Orange: second round. Show ball, say color aloud and make a note.]

[T3 – *GroupContext_Observed* condition]

Now I will ask somebody else to pick a ball denoted with numbers 1 – 3, which will determine the number of the group member whose decision will count for all group members.
[Show, say aloud, and make a note.]
We're almost at the very end. In your envelope D, you can find a very short questionnaire and we would like to ask you to fill it out. Please, place your ID sticker on it.
Shortly, each of you will get 5 euro. Please, fill the payment receipt that you can find in your envelope D. You need to fill the amount: 5 euro.
We will be able to calculate the final amount after finishing the whole research. At the end of November, we will publish information regarding additional payoffs on the project's website as well as the dorm's Facebook pages. Remember, we will only be able to pay the remaining amount only after showing the ID code you picked at the beginning of the session. Alternatively,

we will also accept a photo of your ID code together with your national ID on your cell phone. I hence recommend you to take a photo of your ID after leaving.
Once you have filled the questionnaire and receipt, make sure you didn't forget to place your ID sticker on the questionnaire and put it into envelope D. Then you can proceed to the front with the envelope D and receipt, and you will get paid.
Upon leaving, do not forget to take candy of the chosen color.

II. EXPERIMENTAL INSTRUCTIONS
EXPERIMENT 2: ADULTS, SLOVAKIA [ONLINE]

English translation (instructions were given in Slovak language)

1. VERSION A – *Individual* condition

1.1 Introduction

Good afternoon,
In this survey, we will ask you to make *decisions* in several tasks. Please fill in this survey while being calm and fully focused, preferably on a computer. Always read the instructions to the tasks in detail, you have enough time. In these tasks, you and another randomly selected participant of this survey will be able to earn an additional financial reward on top of the standard reward for completing the questionnaire. For the sake of simplicity, this participant will be referred to as "Participant B", although it may also be a woman[1]. You will receive your additional reward within 10 weeks of submitting your survey answers.
You will not receive a reward for every decision you make. When you finish the questionnaire, the computer randomly selects one of your decisions. This decision will, along with the decision of Participant B, determine the additional reward for you and for Participant B. Therefore, it is important that you pay full attention when making all your decisions, because each of them can determine the additional reward you and Participant B will receive. For better clarity, the decisions are highlighted and numbered. All the amounts stated in the questionnaire are real - if, for example, it is written that you will receive 1 € for a decision and this decision will be drawn for payment, you will receive 1 € within 10 weeks from submitting the answers.
By choosing to start the questionnaire you express your agreement with participation in the research. Participation is fully voluntary and may be terminated at any time. If you are interested in further details about the research, you can contact doc. PhDr. Julie Chytilová, Ph.D. at the email address chytilova@fsv.cuni.cz.

1.2 Task 1 [JDG]

Rules
In this task, you get 2 €, and Participant B also gets 2 €. Your task is to choose between two options:

- Reduce Participant B's reward by 1 € and pay for it 20 cents from your reward.
- Leave the money as it is.

[1] The Slovak language uses different words for male and female forms of "a participant", we therefore explicitly reminded participants to keep that in mind.

Participant B will make the same decision, i.e., whether to reduce your reward by 1 € and pay for it 20 cents out of his/her reward or to leave the money as it is.

While making your decision, neither you nor Participant B will know how the other person has decided. So there are four options what the rewards might be:

- If both you and Participant B decide to reduce each other's money, you will receive 80 cents each.
- If you decide to reduce Participant B's money and Participant B decides to leave the money as it is, you will receive 1.80 € and Participant B will receive 1 €.
- If you decide to leave the money as it is and Participant B decides to reduce your money, you will receive 1 € and Participant B will receive 1.80 €.
- If both you and Participant B decide to leave the money as it is, you will receive 2 € each.

OT1. Decision 1. Make your own decision about which of the two options you want to choose. Remember: You have 2 € and Participant B has also 2 €. You don't know how Participant B has decided. If the computer chooses this decision for payment, your choice determines how much money you and Participant B will get. The decision is only up to you.

1. Reduce Participant B's reward by 1 € and pay for it 20 cents from your reward.
2. Leave the money as it is.

OT2. Decision 2. What do you think Participant B has chosen? If this decision is selected for payment and your answer is correct, you will receive 1 €.

1. Participant B decided to reduce your reward by 1 € and pay 20 cents for it.
2. Participant B decided to leave the money as it is.

Decision 3. Now imagine that you know what Participant B did in Decision 1. Your task is to make your decision in two possible cases:

A) when it turns out that Participant B decided to reduce your money.
B) when it turns out that Participant B decided to leave the money as it is.

The decision is only up to you. If the computer selects this decision to determine your reward, we first look at what decision Participant B has made. Please note that your decision will determine how much money you and Participant B will receive.

OT3A. Make your own decision on which option you want to choose when it turns out that Participant B decided to reduce your money by 1 € and pay 20 cents for it.

1. Reduce Participant B's money (that is, each of you gets 80 cents).
2. Leave the money as it is (that is, you get 1 € and Participant B 1,80 €).

OT3B. Make your own decision on which option you want to choose when it turns out that Participant B decided to leave the money as it is.

1. Reduce Participant B's money (that is, you will receive 1.80 € and Participant B 1 €).
2. Leave the money as it is (that is, everyone gets 2 €).

1.3 Task 2 [PDG]

Rules
In this task, you get 1.60 € to start with and Participant B also gets 1.60 €. Your task is to choose between two options:

- Take 80 cents from Participant B to earn 40 cents for yourself.
- Leave the money as it is.

Participant B makes the same decision, i.e. whether to take 80 cents from your reward to earn 40 cents for him/herself or to leave the money as it is.

While making your decision, neither you nor Participant B will know how the other person has decided. So there are four options what the rewards might be:

- If both you and Participant B decide to take money from each other, you will receive 1.20 € each.
- If you decide to take money from Participant B and Participant B decides to leave the money as it is, you will receive 2 € and Participant B 80 cents.
- If you decide to leave the money as it is and Participant B decides to take your money, you will receive 80 cents and Participant B 2 €.
- If both you and Participant B decide to leave the money as it is, you will receive 1.60 € each.

OT4. Decision 4. Make your own decision about which of the two options you want to choose. Remember: You have 1.60 € and Participant B has 1.60 €. You don't know how Participant B has decided. If the computer chooses this decision for payment, your choice determines how much money you and Participant B will get. The decision is only up to you.

1. Take 80 cents from Participant B to earn 40 cents for yourself.
2. Leave the money as it is.

OT5. Decision 5. What do you think Participant B did? If this decision is selected for payment and your answer is correct, you will receive 1 €.

1. Participant B decided to take 80 cents to earn 40 cents for him/herself.
2. Participant B decided to leave the money as it is.

Decision 6. Now imagine that you know what Participant B did in Decision 4. Your task is to make your decision in two possible cases:

A) when it turns out that Participant B decided to take money from you to make money for him/herself.
B) when it turns out that Participant B decided to leave the money as it is.

The decision is only up to you. When the computer selects this decision to determine your reward, we first look at what decision Participant B has made. Please note that your decision will determine how much money you and Participant B will receive.

OT6A. Make your own decision on which option you want to choose when it turns out that Participant B decided to take 80 cents from you to earn 40 cents for himself.

1. Take money from Participant B to earn money for yourself (that is, everyone gets 1.20 €).
2. Leave the money as it is (that is, you get 80 cents and Participant B 2 €).

OT6B. Make your own decision on which option you want to choose when it turns out that Participant B decided to leave the money as it is.

1. Take money from Participant B to earn money for yourself (that is, you get 2 € and Participant B 80 cents).
2. Leave the money as it is (that is, everyone gets 1.60 €).

1.4 Questionnaire

OT7. How did you understand the instructions?

1. Fully
2. Partially
3. Not at all

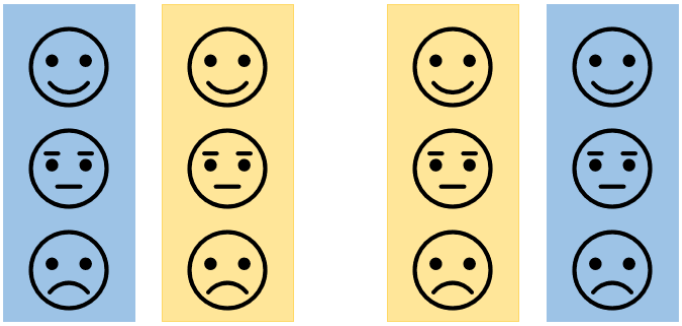
OT8. Please select the emoticon that best reflects how you enjoyed the survey. The emoticon of your choice will be sent to the researchers who have prepared the research.

1:

2:

3:

0T9. The emoticon that you send to the researchers will be displayed on a *yellow / blue* background. If you agree, click "Next". If you wish to change the background color to *blue / yellow*, click on “Change”.



1: Next
2: Change

OT10. If the elections to the National Council of the Slovak Republic were held next weekend, which party would you vote for?

1: KDH
2: MOST - HÍD
3: OĽaNO
4: SaS
5: SNS
6: SMER-SD
7: SMK
8: Kotleba - ĽSNS
9: SME RODINA
10: Za ľudí
11: Progresívne Slovensko - Spolu
12: Vlasť
13: Dobrá voľba
95: Other (Write out)
96: I do not know
97: I don't want to answer
98: I would not vote

VERSION B – *GroupContext_Hidden* condition

Good afternoon,
In this survey, we will ask you to make *decisions* in several tasks. Please fill in this survey while being calm and fully focused, preferably on a computer. Always read the instructions to the tasks in detail, you have enough time. In these tasks, you will be grouped together with two other participants of this survey in a group of three. You will be a member of Group A ("Your group"). In these tasks, all three members of your group and members of another randomly selected group will be able to receive an additional financial reward on top of the standard reward for completing the questionnaire. For the sake of simplicity, this other group of three randomly selected participants will be referred to as "Group B". Note that in both your Group and in Group B may also be women[2]. You will receive your additional reward within 10 weeks of submitting the questionnaire.
For example, when we say that your group gets 1 €, it means that each of the three members of your group gets 1 € (that is, you get 1 €, the second member gets 1 €, and the third member gets 1 €). Similarly, when we say that Group B gets 1 €, then each of the three members of Group B gets 1 €.
You will not receive a reward for every decision you make. When you finish the questionnaire, the computer randomly selects one of the decisions made by your group that will determine the payoffs of all members of the group. Therefore, it is important that you pay full attention when making all your decisions, because each of them can determine the additional reward members of your group and members of Group B will receive. For better clarity, the paid-for decisions are highlighted and numbered. All the amounts stated in the questionnaire are real - if, for example, it is written that your group will receive 1 € for a decision and this decision will be selected for payment, each member of your group will receive 1 € within 10 weeks from submitting the answers.
By choosing to start the questionnaire you express your agreement with participation in the research. Participation is fully voluntary and may be terminated at any time. If you are interested in further details about the research, you can contact doc. PhDr. Julie Chytilová, Ph.D. at the email address chytilova@fsv.cuni.cz.

2.1 Task 1 [JDG]

Rules
In this task, your group gets 2 €, and Group B also gets 2 €. The task of your group is to choose between two options:

- Reduce Group B's reward by 1 € and pay 20 cents from your reward.
- Leave the money as it is.

Group B will make the same decision, i.e., whether to reduce the reward of your group by 1 € and pay 20 cents of their reward or to leave the money as it is.

[2] The Slovak language uses different words for male and female forms of "a participant", we therefore explicitly reminded participants to keep that in mind.

While making your decision, neither your group nor Group B will know how the other group has decided. So there are four options what the rewards might be:

- If both your group and Group B decide to reduce the other Group's money, each of the groups will receive 80 cents.
- If your group decides to reduce Group B's money and Group B decides to leave the money as it is, you will receive 1.80 € and Group B will receive 1 €.
- If your group decides to leave the money as it is and Group B decides to reduce your group's money, your group will receive 1 € and Group B will receive 1.80 €.
- If both your group and Group B decide to leave the money as it is, each group will receive 2€.

Now pay attention to how your group will make its decisions. Group B will make its decisions in the same way.

We will ask each member of your group to make their decision. Then the computer randomly selects one of these three decisions: either your decision, the decision of the second member of your group, or the decision of the third member of your group. This decision will determine the remuneration for all three members of your group and for all three members of Group B. You will not know whether your decision or the decision of another member of your group has been selected.

OT1. Decision 1. Decide on behalf of your group which of the two options you want to choose. Remember: Your group has 2 € and Group B also has 2 €. You don't know how Group B has decided. If the computer chooses this decision for payment, the choice made by your group determines how much money your group and Group B will get. The decision of your group will be determined by the decision of one of the group members, but you will never know whether it was your decision or the decision of another member.

1. Reduce Group B's money by 1 € and pay 20 cents from the reward of your group.
2. Leave the money as it is.

OT2. Decision 2. What do you think Group B has chosen? If this decision is selected and your answer is correct, you will receive 1 €.

1. Group B decided to reduce your group's money by 1 € and pay 20 cents for it.
2. Group B decided to leave the money as it is.

OT3. Decision 3. What do you think the other two members of your group have done? When this decision is selected for payment and your answer is correct, you will receive 1 €.

1. Both decided to reduce Group B's money.
2. One decided to reduce Group B's money, and one decided to leave the money as it is.
3. Both decided to leave the money as it is.

Decision 4. Now imagine that you know what Group B did in Decision 1. Your task is to make a decision on behalf of your group in two possible cases:

A) when it turns out that Group B decided to reduce your money.
B) when it turns out that Group B decided to leave the money as it is.

The decision is up to you only. When the computer selects this decision to determine your reward, we first look at what decision Group B has made. The decision of your group will be

determined by the decision of one of the group members, but you will not know if it was your decision or the decision of another group member.

OT4A. Decide on behalf of your group on which option you want to choose when it turns out that Group B decided to reduce your group's money by 1 € and pay 20 cents for it.

1. Reduce Group B's money (that is, each group gets 80 cents).
2. Leave the money as it is (that is, you get 1 € and Group B 1,80 €).

OT4B. Make a decision on behalf of your group on which option you want to choose when it turns out that Group B decided to leave the money as it is.

1. Reduce Group B's money (that is, you will receive 1.80 € and Group B 1 €).
2. Leave the money as it is (that is, each group gets 2 €).

2.2 Task 2 [PDG]

Rules

In this task, your group gets 1.60 € to start with and Group B also gets 1.60 €. The task of your group is to choose between two options:

- Take 80 cents from Group B to earn 40 cents for your group.
- Leave the money as it is.

Group B makes the same decision, i.e. whether to take 80 cents from the reward of your group to earn 40 cents for itself or to leave the money as it is.
While making your decision, neither you nor Group B will know how the other group has decided. So there are four options what the rewards might be:

- If both your group and Group B decide to take money from each other, each group will receive 1.20 €.
- If your group decides to take money from Group B and Group B decides to leave the money as it is, your group will receive 2 € and Group B 80 cents.
- If you decide to leave the money as it is and Group B decides to take your money, you will receive 80 cents and Group B 2 €.
- If both you and Group B decide to leave the money as it is, you will receive 1.60 € each.

Your group will make their decisions in the same way as they did in the previous task. Group B will make its decisions in the same way.
We will ask you and the other two members of your group to make your decision. Then the computer randomly selects one of these three decisions, either your decision or the decision of the second member of your group or the decision of the third member of your group. This decision will determine the reward for all three members of your group and for all three members of Group B. You will not know whether your decision or the decision of another member of your group has been selected.

OT5. Decision 5. Decide on behalf of your group which of the two options you want to choose.

Remember: Your group has 1.60 € and Group B has 1.60 €. You don't know how Group B has decided. If the computer chooses this decision for payment, the choice made by your group determines how much money your group and Group B will get. The decision of your group will be determined by the decision of one of the group members, but you will never know whether it was your decision or the decision of another member.

1. Take 80 cents from Group B to earn 40 cents for your group.
2. Leave the money as it is.

OT6. Decision 6. What do you think Group B did? If this decision is selected and your answer is correct, you will receive 1 €.

1. Group B decided to take 80 cents from your group to earn 40 cents for their group.
2. Group B decided to leave the money as it is.

OT7. Decision 7. What do you think the other two members of your group have done? When this decision is selected and your answer is correct, you will receive € 1.

1. Both decided to take money from Group B to make money for your group.
2. One decided to take money from Group B, and one decided to leave the money as it is.
3. Both decided to leave the money as it is.

Decision 8. Now imagine that you know what Group B did in Decision 5. Your task is to make a decision on behalf of your group in two possible cases:

A) when it turns out that Group B decided to take money from your group to make money for their group.
B) when it turns out that Group B decided to leave the money as it is.

The decision is up to you only. When the computer selects this decision to determine your reward, we first look at what decision Group B has made. The decision of your group will be determined by the decision of one of the group members, but you will not know if it was your decision or the decision of another group member.

OT8A. Make a decision on behalf of your group on which option you want to choose when it turns out that Group B decided to take 80 cents from your group to earn 40 cents for themself.

1. Take money from Group B to earn money for your group (that is, each group gets 1.20 €).
2. Leave the money as it is (that is, your group gets 80 cents and Group B 2 €).

OT8B. Make a decision on behalf of your group on which option you want to choose when it turns out that Group B decided to leave the money as it is.

1. Take money from Group B to earn money for your group (that is, your group gets 2 € and Group B 80 cents).
2. Leave the money as it is (that is, each group gets 1.60 €).

2.3 Questionnaire

OT9. How did you understand the instructions?

1. Fully

2. Partially
3. Not at all

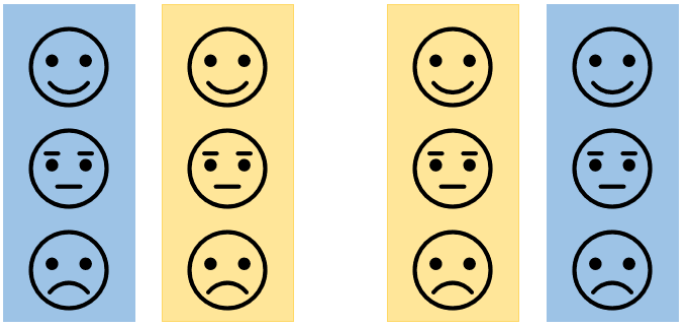
OT10. Please select the emoticon that best reflects how you enjoyed the survey. The emoticon of your choice will be sent to the researchers who have prepared the research.

1:

2:

3:

0T11. The emoticon that you and the other two members of your Group send to the researchers will be displayed on a *yellow / blue* background. If you agree, click "Next". If you wish to change the background color for your group to *blue / yellow*, click on “Change”.



1: Next
2: Change

OT12. If the elections to the National Council of the Slovak Republic were held next weekend, which party would you vote for?

1: KDH
2: MOST - HÍD
3: OĽaNO
4: SaS
5: SNS
6: SMER-SD
7: SMK
8: Kotleba - ĽSNS
9: SME RODINA
10: Za ľudí
11: Progresívne Slovensko - Spolu
12: Vlasť
13: Dobrá voľba
95: Other (Write out)
96: I do not know
97: I don't want to answer
98: I would not vote

III. EXPERIMENTAL INSTRUCTIONS
EXPERIMENT 3: ADULTS, SLOVAKIA [ONLINE]

English translation (instructions were given in Slovak language)

1. Introduction (both conditions)

Thank you very much for your willingness to participate in this survey conducted by the Technical University of Košice. The whole survey is expected to last approximately 5 minutes and apart from the standard reward for filling out a survey you can receive an additional reward. All the amounts indicated in the questionnaire are real. They will be credited to your account after the conversion to ePoints (1 euro = 100 ePoints).
The document (PDF) with detailed information about the study and the text of the informed consent can be downloaded here: [INCLUDE LINK]
In case you would like to obtain further information about the study, contact Dr Tomáš Želinský at tomas.zelinsky@tuke.sk.
[new screen]

Informed consent
I confirm that I have familiarized myself with the information about the survey. I understand that my participation is fully voluntary, that I can leave the study at any point in time, and that my answers are anonymous. I agree with my participation in the survey.
By clicking "Yes" you agree with the participation in the survey and answer the survey questions.
By clicking "No" your participation will be automatically terminated.

The document (PDF) with detailed information about the study and the text of the informed consent can be downloaded here: [INCLUDE LINK]

- Yes
- No

2. Socio-demographic characteristics #1 (both conditions)

First, we would like to ask you to fill basic socio-demographic characteristics:

- **State your gender:** Man/Woman
- **What region do you live in:** Bratislava/Trnava/Trenčín/Nitra/Žilina/Banská Bystrica/Prešov/Košice
- **State your age:** ……
- **What is the size of your place of residence?** up to 1,000/between 1,001 and 5,000/between 5,001 and 20,000/between 20,001 and 100,000/100,001 or more
- **What is your highest level of education?** No formal education/Unfinished primary/Primary/Vocational school/General secondary/Secondary specialized school - program with a secondary-school certificate/Postsecondary specialized study/Higher professional studies/Bachelor's degree/Master's degree/Doctoral degree/High school/University degree

3. Main task

3.1. *Individual* condition

We will now ask you to make one decision in one task. Please fill in this survey while being calm and fully focused. Always read the instructions for the tasks in detail; you have enough time.

[new screen]

One other survey participant will be involved in this task who, unlike you, does not make a decision. For the sake of simplicity, we will refer to this person as Person B. Person B is an adult, lives in Slovakia; and can be a man or a woman.

[new screen]

In this task, you, and Person B can receive an additional financial reward in addition to the standard reward for completing the questionnaire. Upon completing the survey, the computer will randomly select 50 % that will receive extra rewards. Your decision can determine the amount of your and Person B's additional reward. Therefore, it is important that you focus on your decision.

All the amounts indicated in the questionnaire are real. For example, when we say that you get 1 €, the additional reward of 1 € will be credited to your account within 10 weeks from submitting the answers.

[new screen]

[V1: Standard version (costly destruction)]
In this task, you get 2 €, and Person B also gets 2 €. Your task is to choose between three options:

- Reduce Person B's reward by 1 € and pay 20 cents from your reward.
  (You will receive 1.80 € and Person B will receive 1 €.)
- Leave the money as it is.
  (You will receive 2 € and Person B will receive 2 €.)
- Add 1 € to Person B's reward and pay 20 cents from your reward.
  (You will receive 1.80 € and Person B will receive 3 €.)

[new screen]

<u>Decision.</u> Make your own decision about which of the three options you want to choose. Remember: you have 2 € and Person B has also 2 €. The decision is only up to you.

- Reduce Person B's reward by 1 € and pay 20 cents from your reward.
  (You will receive 1.80 € and Person B will receive 1 €.)
- Leave the money as it is.
  (You will receive 2 € and Person B will receive 2 €.)
- Add 1 € to Person B's reward and pay 20 cents from your reward.
  (You will receive 1.80 € and Person B will receive 3 €.)

[V2: Costless destruction]
In this task, you get 2 €, and Person B also gets 2 €. Your task is to choose between three options:

- Reduce Person B's reward by 1 €.
  (You will receive 2 € and Person B will receive 1 €.)
- Leave the money as it is.
  (You will receive 2 € and Person B will receive 2 €.)
- Add 1 € to Person B's reward.
  (You will receive 2 € and Person B will receive 3 €.)

[new screen]

<u>Decision.</u> Make your own decision about which of the three options you want to choose. Remember: you have 2 € and Person B has also 2 €. The decision is only up to you.

- Reduce Person B's reward by 1 €.
  (You will receive 2 € and Person B will receive 1 €.)
- Leave the money as it is.
  (You will receive 2 € and Person B will receive 2 €.)
- Add 1 € to Person B's reward.
  (You will receive 2 € and Person B will receive 3 €)

3.2. GroupContext_Hidden condition

We will now ask you to make one decision in one task. Please fill in this survey while being calm and fully focused. Always read the instructions for the tasks in detail; you have enough time.

[new screen]

In this task, you will be grouped together with two other participants of this survey in a group of three. Each member is randomly selected, and it can be a man or a woman. For the sake of simplicity, we will only use the term "group member".

In addition to your group, one other survey participant will be involved in this task who, unlike you, does not make any decisions. For the sake of simplicity, we will refer to this person as Person B. Person B is an adult, lives in Slovakia; and can be a man or a woman.

[new screen]

In this task, you, together with the other two members of your group and Person B can receive an additional financial reward in addition to the standard reward for completing the questionnaire. Upon completing the survey, the computer will randomly select 50 % that will receive extra rewards. From each selected group, we will randomly select one member whose decision will determine the remuneration for all members of your group and the remuneration for Person B. It can be your decision which will determine the amount of this additional remuneration. Therefore, it is important that you focus on your decision.

All the amounts indicated in the questionnaire are real. For example, when we say that your group gets 1 €, it means that each of the three members of your group gets 1 € (that is, you get 1 €, the second member gets 1 €, and the third member gets 1 €). If you are selected, the additional reward will be credited to your account within 10 weeks from submitting the answers.

[new screen]

[V1: Standard version (costly destruction)]
In this task, your group gets 2 €, and Person B also gets 2 €. The task of your group is to choose between three options:

- Reduce Person B's reward by 1 € and pay 20 cents from your reward.
  (Each member of your group will receive 1.80 € and Person B will receive 1 €.)
- Leave the money as it is.
  (Each member of your group will receive 2 € and Person B will receive 2 €.)
- Add 1 € to Person B's reward and pay 20 cents from your reward.
  (Each member of your group will receive 1.80 € and Person B will receive 3 €.)

[new screen]

Now, please pay attention to the explanation of how your group will make their decision.

[new screen]

We will ask each member of your group to make their decision. Upon completing the survey, the computer randomly selects one of these three decisions: either your decision, the decision of the second member of your group, or the decision of the third member of your group. This decision will determine the remuneration for all three members of your group and for Person B. You will not know whether your decision or the decision of another member of your group has been selected. The other two members of your group also will not know whose decision has been selected.

[new screen]

<u>Decision.</u> Decide on behalf of your group which of the three options you want to choose. Remember: your group has 2 € and Person B also has 2 €. The decision of your group will be determined by the decision of one of the group members, but you will never know whether it was your decision or the decision of another member.

- Reduce Person B's reward by 1 € and pay 20 cents from your reward.
  (Each member of your group will receive 1.80 € and Person B will receive 1 €.)
- Leave the money as it is.
  (Each member of your group will receive 2 € and Person B will receive 2 €.)
- Add 1 € to Person B's reward and pay 20 cents from your reward.
  (Each member of your group will receive 1.80 € and Person B will receive 3 €.)

[V2: Costless destruction]
In this task, your group gets 2 €, and Person B also gets 2 €. The task of your group is to choose between three options:

- Reduce Person B's reward by 1 €.
  (Each member of your group will receive 2 € and Person B will receive 1 €.)
- Leave the money as it is.
  (Each member of your group will receive 2 € and Person B will receive 2 €.)
- Add 1 € to Person B's reward.
  (Each member of your group will receive 2 € and Person B will receive 3 €.)

[new screen]

Now, please pay attention to the explanation of how your group will make their decision.

[new screen]

We will ask each member of your group to make their decision. Upon completing the survey, the computer randomly selects one of these three decisions: either your decision, the decision of the second member of your group, or the decision of the third member of your group. This decision will determine the remuneration for all three members of your group and for Person B. You will not know whether your decision or the decision of another member of your group has been selected. The other two members of your group also will not know whose decision has been selected.

[new screen]

<u>Decision.</u> Decide on behalf of your group which of the three options you want to choose. Remember: your group has 2 € and Person B also has 2 €. The decision of your group will be determined by the decision of one of the group members, but you will never know whether it was your decision or the decision of another member.

- Reduce Person B's reward by 1 €.
  (Each member of your group will receive 2 € and Person B will receive 1 €.)
- Leave the money as it is.
  (Each member of your group will receive 2 € and Person B will receive 2 €.)
- Add 1 € to Person B's reward.
  (Each member of your group will receive 2 € and Person B will receive 3 €.)

4. Beliefs (both conditions)

Your task is now to guess how other survey participants responded in the task you've just finished.
Upon completing the survey, we will randomly select 30 participants, and if you are among the selected ones, you will receive an additional reward of up to 3 euros, depending on the accuracy of your guess.

[new screen]
What do you think? How many per cent of participants decided on the following options?
(Percentages must add up to 100%)

V1: Standard version (costly destruction)	Pay 20 cents and reduce Person B's money by 1 euro: ____ % Leave money as it was: ____ % Pay 20 cents and add 1 euro to Person B: ____ % *[Total: ____ %]*
V2: Costless destruction	Reduce Person B's money by 1 euro: ____ % Leave money as it was: ____ % Add 1 euro to Person B: ____ % *[Total: ____ %]*

5. Social norms (both conditions)

Task 2

This task will differ from the previous one. Your task is to guess how ten people responded in the task we will describe shortly.

After completing the survey, we will randomly select 30 participants, and if you are among them, you will receive an additional reward of up to 3 euros, depending on the accuracy of your guess.

To make the most accurate guess, it is important you understand what those ten people were required to do.

[new screen]

We described the task you participated in to those ten people.
They did not participate in the task, but we explained to them that someone from the survey decided whether to reduce the reward of Person B, leave money as it was, or increase the reward of Person B.

[new screen]

[GroupContext_Hidden condition:] **These ten people knew that each survey participant made a decision on behalf of a group of three.**

[Individual condition:] **These ten people knew that each survey participant made their own decision.**

[new screen]

The task of those ten people was to indicate whether increasing/decreasing the reward of Person B was "socially appropriate" and "consistent with moral or proper social behaviour" or "socially inappropriate" and "inconsistent with moral or proper social behaviour". We explained to them that by socially appropriate, we meant behaviour that most people agree is the "right" or "ethical" thing to do. Put differently, selecting a socially inappropriate choice could make other people angry.

[new screen]

Your task is now to guess how many of the ten people decided on each of the following options: [new screen]

[V1: Standard version (costly destruction)]

How many of the 10 people responded that *"paying 20 cents and REDUCING Person B's reward by 1 euro"* in this situation is:
(Numbers must add up to 10)

- Very Socially Inappropriate: ____ /Quite Socially Inappropriate: ____ /Somewhat Socially Inappropriate: ____ /Somewhat Socially Appropriate: ____/Quite Socially Appropriate: ____/ Very Socially Appropriate: ____

How many of the 10 people responded that *"paying 20 cents and ADDING 1 euro to Person B's reward"* in this situation is:
(Numbers must add up to 10)

- Very Socially Inappropriate: ____ /Quite Socially Inappropriate: ____ /Somewhat Socially Inappropriate: ____ /Somewhat Socially Appropriate: ____/Quite Socially Appropriate: ____/ Very Socially Appropriate: ____

[V2: Costless destruction]

How many of the 10 people responded that *"REDUCING Person B's reward by 1 euro"* in this situation is:
(Numbers must add up to 10)

- Very Socially Inappropriate: ____ /Quite Socially Inappropriate: ____ /Somewhat Socially Inappropriate: ____ /Somewhat Socially Appropriate: ____/Quite Socially Appropriate: ____/ Very Socially Appropriate: ____

How many of the 10 people responded that *"ADDING 1 euro to Person B's reward"* in this situation is:
(Numbers must add up to 10)

- Very Socially Inappropriate: ____ /Quite Socially Inappropriate: ____ /Somewhat Socially Inappropriate: ____ /Somewhat Socially Appropriate: ____/Quite Socially Appropriate: ____/ Very Socially Appropriate: ____

6. Socio-demographic characteristics #2 (both conditions)

- **Please, indicate the total net household income (per month):** less than 400€/between 401 and 600€/between 601 and 800€/between 801 and 1000€/between 1001 and 1200€/between 1201 and 1500€/between 1501 and 2000€/between 2001 and 3000€/between 3001 and 4000€/4001€ or more/Don't know / Don't want to respond
- **Please, indicate your net personal income (per month):** less than 300€/between 301 and 400€/between 401 and 600€/between 601 and 800€/between 801 and 1000€/between

1001 and 1200€/between 1201 and 1500€/between 1501 and 2000€/between 2001 and 3000€/3001€ or more

- **What is the number of adults living in your household (including yourself)?** *By 'adults,' we mean all household members who are 18 years of age or older.*
- **What is the number of children living in your household?** *By 'children,' we mean all household members who are 17 years of age or younger.*
- **If the elections to the National Council of the Slovak Republic were held next weekend, which party would you vote for?** Aliancia/Dobrá voľba/Hlas/KDH/ĽSNS/Maďarské forum/OĽaNO/Progresívne Slovensko/Republika/SaS/Sme Rodina/Smer-SD/SNS/Spolu/Za ľudí/Other (Write out):_____ /I do not know/I don't want to answer/I would not vote

7. Social norms: an auxiliary sample

[This sample of 40 observations was collected only so that the social norms elicitation in the main sample—described in section 5—can be incentivized]

Shortly, you will see a description of a task in which a different group of respondents participated.

Your task is to indicate whether their decisions were considered 'socially appropriate' or 'socially inappropriate'. Therefore, it is important that you understand the nature of their task.

For completing the survey, you will automatically earn an additional 1 euro on top of your standard reward.

[new screen]

7.1. Individual condition

The task for the other participants

In the task, the survey participant, whom we will refer to as Person A (who can be either a man or a woman), was matched with Person B. Person A knew that Person B was an adult living in Slovakia and could be a man or a woman. Person A also knew that Person B did not make any decisions.

Person A made a decision for themselves. Their decision determined the amount of additional reward for both themselves and Person B.

[new screen]

[V1: Standard version (costly destruction)]

In this task, Person A got 2 €, and Person B also got 2 €. Person A's task was to choose between three options:

- Reduce Person B's reward by 1 € and pay 20 cents from their reward.
  (Person A would receive 1.80 € and Person B would receive 1 €.)
- Leave the money as it is.
  (Person A would receive 2 € and Person B would receive 2 €.)
- Add 1 € to Person B's reward and pay 20 cents from their reward.
  (Person A would receive 1.80 € and Person B would receive 3 €.)

[new screen]

Your task

Your task is to evaluate whether the following decisions were "socially appropriate" and "consistent with moral or proper social behaviour" or "socially inappropriate" and "inconsistent with moral or proper social behaviour".

By socially appropriate, we mean behaviour that most people agree is the "right" or "ethical" thing to do. Put differently, selecting a socially inappropriate choice could make other people angry.

[new screen]

- "Paying 20 cents and **reducing** Person B's reward by 1 euro" in this situation you consider as: Very Socially Inappropriate/Quite Socially Inappropriate/Somewhat Socially Inappropriate/Somewhat Socially Appropriate/Quite Socially Appropriate/ Very Socially Appropriate
- "Paying 20 cents and **adding** 1 euro to Person B's reward" in this situation you consider as: Very Socially Inappropriate/Quite Socially Inappropriate/Somewhat Socially Inappropriate/Somewhat Socially Appropriate/Quite Socially Appropriate/ Very Socially Appropriate

[V2: Costless destruction]

In this task, Person A got 2 €, and Person B also got 2 €. Person A's task was to choose between three options:

- Reduce Person B's reward by 1 €.
  (Person A would receive 2 € and Person B would receive 1 €.)
- Leave the money as it is.
  (Person A would receive 2 € and Person B would receive 2 €.)
- Add 1 € to Person B's reward.
  (Person A would receive 2 € and Person B would receive 3 €.)

[new screen]

Your task

Your task is to evaluate whether the following decisions were "socially appropriate" and "consistent with moral or proper social behaviour" or "socially inappropriate" and "inconsistent with moral or proper social behaviour".

By socially appropriate, we mean behaviour that most people agree is the "right" or "ethical" thing to do. Put differently, selecting a socially inappropriate choice could make other people angry.

[new screen]

- "**Reducing** Person B's reward by 1 euro" in this situation you consider as: Very Socially Inappropriate/Quite Socially Inappropriate/Somewhat Socially Inappropriate/Somewhat Socially Appropriate/Quite Socially Appropriate/ Very Socially Appropriate
- "**Adding** 1 euro to Person B's reward" in this situation you consider as: Very Socially Inappropriate/Quite Socially Inappropriate/Somewhat Socially Inappropriate/Somewhat Socially Appropriate/Quite Socially Appropriate/ Very Socially Appropriate

7.2. GroupContext_Hidden condition

The task for the other participants

In the task, the survey participant, whom we will refer to as Person A (who can be either a man or a woman), was matched with Person B. Person A knew that Person B was an adult living in Slovakia and could be a man or a woman. Person A also knew that Person B did not make any decisions.

Person A made a decision for a **group of three**. Hence, Person A was grouped together with two other (randomly selected) participants of this survey.

From each selected group, the computer randomly selected one member whose decision determined the remuneration for all group members and the remuneration for Person B. Neither Person A nor the other two members of their group knew whose decision had been selected.

[new screen]

[V1: Standard version (costly destruction)]

In this task, each member of Person A's group got 2 €, and Person B also got 2 €. Person A's task was to choose between three options:

- Reduce Person B's reward by 1 € and pay 20 cents from their reward.
  (Each member of Person A's group would receive 1.80 € and Person B would receive 1 €.)
- Leave the money as it was.
  (Each member of Person A's group would receive 2 € and Person B would receive 2 €.)
- Add 1 € to Person B's reward and pay 20 cents from their reward.
  (Each member of Person A's group would receive 1.80 € and Person B would receive 3 €.)

[new screen]

Your task
Your task is to evaluate whether the following decisions were "socially appropriate" and "consistent with moral or proper social behaviour" or "socially inappropriate" and "inconsistent with moral or proper social behaviour".

By socially appropriate, we mean behaviour that most people agree is the "right" or "ethical" thing to do. Put differently, selecting a socially inappropriate choice could make other people angry.

[new screen]

- "Paying 20 cents and **reducing** Person B's reward by 1 euro" in this situation you consider as: Very Socially Inappropriate/Quite Socially Inappropriate/Somewhat Socially Inappropriate/Somewhat Socially Appropriate/Quite Socially Appropriate/ Very Socially Appropriate
- "Paying 20 cents and **adding** 1 euro to Person B's reward" in this situation you consider as: Very Socially Inappropriate/Quite Socially Inappropriate/Somewhat Socially Inappropriate/Somewhat Socially Appropriate/Quite Socially Appropriate/ Very Socially Appropriate

[V2: Costless destruction]

In this task, each member of Person A's group got 2 €, and Person B also got 2 €. Person A's task was to choose between three options:

- Reduce Person B's reward by 1 €.
  (Each member of Person A's group would receive 2 € and Person B would receive 1 €.)
- Leave the money as it was.
  (Each member of Person A's group would receive 2 € and Person B would receive 2 €.)
- Add 1 € to Person B's reward.
  (Each member of Person A's group would receive 2 € and Person B would receive 3 €.)

[new screen]

Your task

Your task is to evaluate whether the following decisions were "socially appropriate" and "consistent with moral or proper social behaviour" or "socially inappropriate" and "inconsistent with moral or proper social behaviour".

By socially appropriate, we mean behaviour that most people agree is the "right" or "ethical" thing to do. Put differently, selecting a socially inappropriate choice could make other people angry.

[new screen]

- "**Reducing** Person B's reward by 1 euro" in this situation you consider as: Very Socially Inappropriate/Quite Socially Inappropriate/Somewhat Socially Inappropriate/Somewhat Socially Appropriate/Quite Socially Appropriate/ Very Socially Appropriate
- "**Adding** 1 euro to Person B's reward" in this situation you consider as: Very Socially Inappropriate/Quite Socially Inappropriate/Somewhat Socially Inappropriate/Somewhat Socially Appropriate/Quite Socially Appropriate/ Very Socially Appropriate

IV. EXPERIMENTAL INSTRUCTIONS
PILOT EXPERIMENT 1: ADOLESCENTS, SLOVAKIA

English translation (instructions were given in Slovak language)

1. Greeting and introductory instructions for the whole class

[To the whole class at the same time, when seated]
Hello! My name is *(experimenter's name)* and my assistants are *(assistants' names).* Today you will participate in several activities. The activities will all together take about an hour and a half.

During these activities you will have a chance to earn some money. This money can be used to order things from our shop. We have a catalogue of things that you choose from, including sweets, lemonade, pens, notebooks, other school items and small toys. The more money you earn the more and better things you will be able to order. The things that you order will be delivered to you during the next month; you will get it in a sealed bag with your name *[show them the bag].* No one will know how much money you earned in the activities or what you decided to buy for them. We will not tell your classmates, teachers, parents or anybody else.
You should understand that we will not use our money. It is money given to us by the University in Prague/ Technical University in Kosice for doing these activities with you.
Before each activity we will give you exact instructions. We will also show you some examples. We want you to understand everything well before you start. Always pay very careful attention to the instructions, because the better you understand them, the better decisions you can make.
Please do not talk to each other from this point on. If you don't obey this rule, you will be asked to leave and will not receive any money. This is very important. If one talks to others about the activity, it is possible for one person to spoil the activity for everyone. If you have a question, you can raise your hand and ask. Otherwise, please be quiet and listen carefully.
The choices you will make today will be kept secret. Only the researchers will know, but the headmaster, teachers, your parents or classmates will not know about it. We will not tell them.
Before we proceed any further, let me stress something that is very important. If at any time you find that you do not wish to participate for any reason, you are of course free to leave whether we have started the activities or not. If you already know that you do NOT want to do the activities, please leave the classroom now.
All right, everyone who wants to participate has to draw a card from this box. This card is very important and you must have it during all activities you will do today. The card contains your ID number. You will be making all decisions using your ID number only and we will never know which name is under which number. You have the ID number so that we know how much to pay you in the end. If you lose your ID number, we will not know how much to pay you. Do you have any questions?
[When all students have the cards]
Now please show me your cards. Everyone who has a yellow card like this, please go out with the person over there. Everyone who has an orange card, please go with this person. Everyone who has a pink card, please go with this person. If you have a green card, please stay here with me.

2. *Individual* condition

[in a separate room]

2.1 Introduction

Hello, my name is XXX. Please sit at the place that is marked with your ID number, the number that you have on your card.
We will go through some activities together. Please do not talk to anyone else, or you will have to leave. This is very important. If one talks to others about the activity, it is possible for one person to spoil the activity for everyone.
As we said, you can earn some money in these activities. *[show money to students.]* This money can be used to order things from our shop. The things that you order will be delivered to you during the next month.
These are the catalogues from the shop *[distribute the catalogues].* You will now have some time to go through them.
[After 3 minutes]: Now please give me back the catalogue. You will have more time to go through the catalogue after the activities.
We will start with two activities. You will be asked to make 6 decisions. Only one of the decisions will count for payment. Exactly which one will be chosen randomly after the activities are finished. We have a bag of balls marked 1-6 *[show them the bag],* where each ball represents one decision. In the end, one of your classmates will pick a ball from the bag without looking. If the ball with number 1 is picked, you will be paid for the first decision, if number 6 is picked, you will be paid for the 6th decision and the same thing for all the other numbers. Therefore, you have to be careful and pay attention to every decision you make as all the decisions can count for payment.
You will be told how much money you made only at the end of all activities and then you will have time to choose things from our catalogue for that money.
Is everything clear?
[Answer questions if there are some.]

2.2 Joy of Destruction game (JDG)

We will now start with the first/second activity.

1. [Partner]

[If JDG as a first activity:]

In this activity you are paired with either a girl or a boy from a different school. They were also making their decisions anonymously, so we know only their ID numbers. But we have a list of people from that school and we will show it to you. So you do not know with whom exactly you are matched, but for sure it is someone from this list.
[Distribute the name list A or B]
We will read the list together now *[read the list out loud].*

The person that you are paired with has already gone through these activities and was asked to make the same decisions as you will do now. This is important as the amount of money you will earn depends on your decisions and on the decisions of the person from the list. The person also knew that he/she was paired with a person from a different school.

[If JDG as a second activity:]

In this activity you are again paired with either a girl or a boy from the list that I have given you. Again, we do not know which person specifically, it is still someone from this list, but a different person from the one before.

2. [Procedure]

I will now show what your task is using this picture *[show them the poster].* I will also give a small version of this picture to each of you *[distribute the small pictures].*
In this picture I'll use the red figure to represent you [*point to the red figure in the picture]*, and the blue figure to represent the other person with whom you are matched [*point to the blue figure in the picture]*.
Both you and the other person receive 2 euro, which I show with these coins *[point to the coins next to the red and blue figure in the picture].* You *[point to the red figure in the picture]* then have to decide between two options. You can reduce the person's money or you can leave the money unchanged *[show these options in the picture – red figure]*. Reducing the person's money will cost you 20 cents [*show the 20 cents in the picture]*. By paying 20 cents, you reduce the person's income by 1 euro [*point this in the picture*]. The person was asked to make the same decision [*point to the blue figure in the picture*]. He/she was choosing between reducing your money by 1 euro and leaving your money unchanged *[show these options in the picture – blue figure].* The person had to pay 20 cents if he/she wanted to reduce your money.

What you get therefore depends on your decision and on the decision of the person from the list.
- If the person decides to leave the money unchanged and you also decide to leave the money unchanged *[show the chosen options in the picture as you speak],* then both of you will earn 2 euro *[show the payoffs]*.
- If the person decides to leave the money unchanged and you choose to reduce the person's money *[show the chosen options in the picture]*, then you will earn 1 euro and 80 cents and the other person will earn 1 euro *[show the payoffs]*.
- If the person decides to reduce your money and you choose to leave the money unchanged *[show the chosen options in the picture]*, then you will earn 1 euro and the other person will earn 1 euro and 80 cents *[show the payoffs*].
- If the person decides to reduce your money and you also choose to reduce the person's money *[show the chosen options in the picture]*, both of you will earn 80 cents [*show the payoffs]*. This is because you have 2 euro at the beginning, then you pay 20 cents to reduce the person's money, which would be 1 euro and 80 cents, but the person also decided to reduce your money by 1 euro, which makes it 80 cents.

[Distribute the control questions]
Please, take the answer sheet that I gave you. Write the number from your ID card in the top-right corner**.**

3. [Control questions]

First I will ask some questions to make sure everything is clear. The small pictures will help you answer the questions. Please write your answers in the answer sheet [*use the enlarged answer sheet to show where they should write]*

1) If the other person decides to leave the money unchanged and you also decide to leave the money unchanged, how much will you get? And how much will the other person get?
2) If the other person decides to leave the money unchanged and you decide to reduce the person's money, how much will you get? And how much will the other person get?
3) If the other person chooses to reduce your money and you choose to leave the money unchanged, how much will you get? And how much will the other person get?
4) If the other person chooses to reduce your money and you also choose to reduce the person's money, how much will you get? And how much will the other person get?

Please put the filled answer sheets in the box over there.

4. [Decision 1 – Unconditional Decision]

[Distribute the answer sheets]

Please write the number from your ID card in the top-right corner.

[Always step aside when they are making the decision!]
Now I will ask you to make your decision. I will step over there so that you have time to think it over. You will not be giving the filled answer sheets to me. You will put them in the box over there so that your decisions stay anonymous.
You have 2 euro. Do you want to pay 20 cents and reduce the other person's income by 1 euro? *[Illustrate it one more time in the picture]* Or, do you want to leave the money unchanged? The other person was asked to make the same decision.
What do you want to do if you do not know what the other person has chosen?
Please think about your decision carefully. *[Leave a while to think about the decision]*
Mark the option you want to choose in the answer sheet. If you want to pay 20 cents to reduce the other person's income by 1 euro, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
Please make your decision now.

5. [Beliefs]

Turn to the next page of the answer sheet.
I will now ask you to guess what the other person did. Do you believe that the person decided to pay 20 cents to reduce your money by 1 euro? Or do you believe the person left your money unchanged?
What do you think the other person has chosen?
Please think carefully about your guess. *[Leave a while to think about the decision]*
Mark the option you want to choose in the answer sheet. If you believe the person decided to reduce your money by 1 euro, mark the first option. If you believe that the person left your money unchanged, mark the second option [*show it on the enlarged answer sheet*].

Please make your guess now.

6. [Decision 2 and 3 - Conditional Decisions]

The other person was deciding between paying 20 cents to reduce your money by 1 euro and leaving the money unchanged *[show the options in the picture].* He/she has already decided, but for now we do not know how.

[First situation:]

First option is that the other person chose to leave your money unchanged *[point to the left column of the picture].*

How do you decide? Do you pay 20 cents to reduce the person's money by 1 euro? If you choose this, then you will earn 1 euro and 80 cents and the other person will earn 1 euro. Or, do you leave the person's money unchanged? If you choose this, then you will earn 2 euro and the other person will earn 2 euro. *[Show the options in the picture].*

Take your answer sheet and concentrate on the decision number 2 *[show it on the enlarged answer sheet].*

You have 2 euro. **How do you decide if you know that the other person left the money unchanged?**

Please think about your decision carefully. *[Leave a while for thinking about the decision]*

Mark the option you want to choose in the answer sheet. If you want to pay 20 cents to reduce the person's money by 1 euro, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].

Please make your decision now.

[Second situation:]

Second option is that the other person chose to pay 20 cents to reduce your money by 1 euro [*point to the right column of the picture]*.

How do you decide? Do you pay 20 cents to reduce the person's money by 1 euro? If you choose this, then you will earn 80 cents and the other person will earn 80 cents. Or, do you leave the person's money unchanged? If you choose this, then you will earn 1 euro and the other person will earn 1 euro and 80 cents. *[show the options in the picture].*

Take your answer sheet and concentrate on the decision number 3 *[show it on the enlarged answer sheet].*

You have 2 euro. **How do you decide if you know that the other person reduced your money?**

Please think about your decision carefully. [Leave a while for thinking about the decision]

Mark the option you want to choose in the answer sheet. If you want to pay 20 cents to reduce the person's money by 1 euro, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].

Please make your decision now.

Please check that you have marked your ID number and then put the answer sheet into the box.

7. [End of activity]

I will now take the small pictures from you. Please do not talk to anyone else or you will spoil the activity for everyone.

[If JDG as a first activity: proceed to the "PDG"]

[If JDG as a second activity: continue to the "Second round of activities"]

2.3 Prisoner's Dilemma game (PDG)

We will now start with the first/second activity.

1. [Partner]

[If PDG as a first activity:]

In this activity you are paired with either a girl or a boy from a different school. They were also making their decisions anonymously, so we know only their ID numbers. But we have a list of people from that school and we will show it to you. So you do not know with whom exactly you are matched, but for sure it is someone from this list.

[Distribute the name list A or B]

We will read the list together now *[read the list out loud].*

The person that you are paired with has already gone through these activities and was asked to make the same decisions as you will do now. This is important as the amount of money you will earn depends on your decisions and on the decisions of the person from the list. The person also knew that he/she was paired with a person from a different school.

[If PDG as a second activity:]

In this activity you are again paired with either a girl or a boy from the list that I have given you. Again, we do not know which person specifically, it is still someone from this list, but a different person from the one before.

2. [Procedure]

I will now show what your task is using this picture *[show them the poster].* I will also give a small version of this picture to each of you *[distribute the small pictures].*

In this picture I'll use the red figure to represent you [*point to the red figure in the picture]*, and the blue figure to represent the other person with whom you are matched [*point to the blue figure in the picture]*.

Both you and the other person receive 1 euro and 60 cents, which I show with these coins *[point to the coins next to the red and blue figure in the picture].* You *[point to the red figure in the picture]* then have to decide between two options. You can take 80 cents from the other person to get 40 cents for yourself *[show this option in the picture – red figure]*, or you can leave the money unchanged *[show this option in the picture – red figure]*. The person was asked to make the same decision [*point to the blue figure in the picture*]. He/she was choosing between taking 80 cents from you *[show this option in the picture – blue figure]* and leaving your money unchanged *[show this option in the picture – blue figure].* If he/she took 80 cents from you, he would get 40 cents.

What you get therefore depends on your decision and on the decision of the person from the list.

- If the person decides to leave the money unchanged and you also decide to leave the money unchanged *[show the chosen options in the picture as you speak], then* both of you will earn 1 euro and 60 cents *[show the payoffs]*.
- If the person decides to leave the money unchanged and you choose to take 80 cents from the person to get 40 cents for yourself *[show the chosen options in the picture]*, then you will earn 2 euros and the other person will earn 80 cents *[show the payoffs]*.

- If the person decides to take 80 cents from you and you choose to leave the money unchanged *[show the chosen options in the picture]*, then you will earn 80 cents and the other person will earn 2 euro *[show the payoffs*].
- If the person decides to take 80 cents from you and you choose to take 80 cents from the person *[show the chosen options in the picture]*, both of you will earn 1 euro and 20 cents [*show the payoffs]*. This is because you have 1 euro 60 cents at the beginning, then you get 40 cents by taking 80 cents from the person, which would be 2 euros, but the person also takes 80 cents from you, which makes it 1 euro and 20 cents.

[Distribute the control questions]

Please, take the answer sheet that I gave you. Write the number from your ID card in the top-right corner.

3. [Control questions]

First I will ask some questions to make sure everything is clear. The small pictures will help you answer the questions. Please write your answers in the answer sheet [*use the enlarged answer sheet to show where they should write].*

1) If the other person decides to leave the money unchanged and you also decide to leave the money unchanged, how much will you get? And how much will the other person get?
2) If the other person decides to leave the money unchanged and you decide to take 80 cents from him/her, how much will you get? And how much will the other person get?
3) If the other person chooses to take 80 cents from you and you choose to leave the money unchanged, how much will you get? And how much will the other person get?
4) If the other person chooses to take 80 cents from you and you choose to take 80 cents from him/her, how much will you get? And how much will the other person get?

Please put the filled answer sheets in the box over there.

4. [Decision 1 - Unconditional Decision]

[Distribute the answer sheets]

Please write the number from your ID card in the top-right corner.

[Always step aside when they are making the decision!]

Now I will ask you to make your decision. I will step over there so that you have time to think it over. You will not be giving the filled answer sheets to me. You will put them in the box over there so that your decisions stay anonymous.

You have 1 euro and 60 cents. Do you want to take 80 cents from the other person to get 40 cents for yourself? *[Illustrate it one more time in the picture].* Or, do you want to leave the money unchanged? The other person was asked to make the same decision.

What do you want to do if you do not know what the other person has chosen?

Please think about your decision carefully. *[Leave a while to think about the decision]*

Mark the option you want to choose in the answer sheet. If you want to take 80 cents from the other person to get 40 cents yourself, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].

Please make your decision now.

5. [Beliefs]

Turn to the next page of the answer sheet.
I will now ask you to guess what the other person did. Do you believe that the person decided to take your money by 80 cents to get 40 cents for him/her? Or do you believe the person left your money unchanged?
What do you think the other person has chosen?
Please think carefully about your guess. *[Leave a while to think about the decision]*
Mark the option you want to choose in the answer sheet. If you believe the person decided to take your money by 80 cents, mark the first option. If you believe that the person left your money unchanged, mark the second option [*show it on the enlarged answer sheet*].
Please make your guess now.

6. [Decision 2 and 3 - Conditional Decisions]

The other person was deciding between taking 80 cents from you to get 40 cents and leaving the money unchanged *[show the options in the picture].* He/she has already decided, but for now we do not know how.
[First situation:]
First option is that the other person chose to leave your money unchanged *[point to the first row of the picture].*
How do you decide? Do you take 80 cents from the person's money to get 40 cents for yourself? If you choose this, then you will earn 2 euros and the other person will earn 80 cents. Or, do you leave the person's money unchanged? If you choose this, then you will earn 1 euro and 60 cents and the other person will earn 1 euro and 60 cents. *[Show the options in the picture].*
Take your answer sheet and concentrate on the decision number 2 *[show it on the enlarged answer sheet].*
You have 1 euro and 60 cents. **How do you decide if you know that the other person left the money unchanged?**
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Mark the option you want to choose in the answer sheet. If you want to take 80 cents from the other person to get 40 cents yourself, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
Please make your decision now.
[Second situation:]
Second option is that the other person chose to take 80 cents from you to get 40 cents for him/her [*point to the second row of the picture]*.
How do you decide? Do you take 80 cents from the person's money to get 40 cents for yourself? If you choose this, then you will earn 1 euro and 20 cents and the other person will earn 1 euro and 20 cents. Or, do you leave the person's money unchanged? If you choose this, then you will earn 80 cents and the other person will earn 2 euros *[show the options in the picture].*
Take your answer sheet and concentrate on the decision number 3 *[show it on the enlarged answer sheet].*
You have 1 euro and 60 cents. **How do you decide if you know that the other person took money from you?**
Please think about your decision carefully. [Leave a while for thinking about the decision]

Mark the option you want to choose in the answer sheet. If you want to take 80 cents from the other person to get 40 cents yourself, mark the first option. If you want to leave the money unchanged, mark the second option [show it on the enlarged answer sheet].
Please make your decision now.
Please check that you have marked your ID number and then put the answer sheet into the box.

7. [End of activity]

I will now take the small pictures from you. Please do not talk to anyone else or you will spoil the activity for everyone.
[If PDG as a first activity: proceed to "JDG"]
[If PDG as a second activity: continue to the "Second round of activities"]

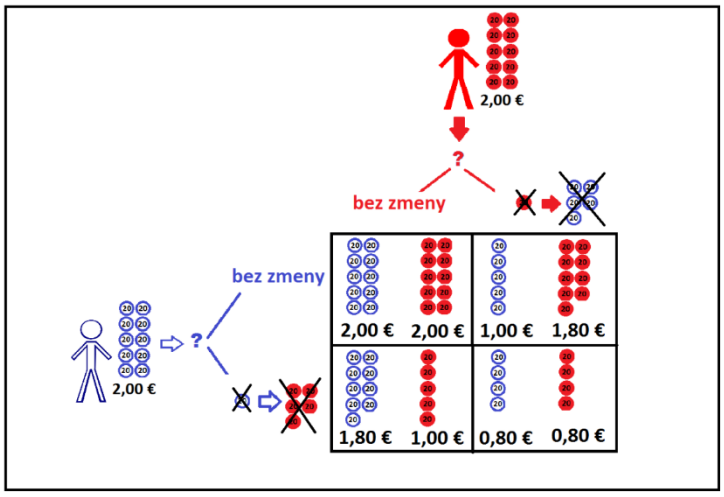
2.4 Second round of activities

This is it for the first two activities. You will be paid for one of the decisions you have just made. You will learn how much money you earned after all activities.
Please give me back the list of names that you got at the beginning.
We will now go over the activities one more time. You will be asked to make 6 more decisions. One of the decisions will again count for payment. As before, we will choose which decision will count by drawing a ball from a bag. You therefore have to pay attention to every decision you make.
The activities will be exactly the same as before, except that you will be paired with a different girl or boy from yet a different school. As before, neither you nor I know at this moment which person it is, but for sure it is someone from this second list *[Distribute the name list A or B to the persons.]*
We will read the list together now *[read the list out loud].*
Also this person has already gone through these activities and was asked to make the same decisions as you will do now. The amount of money you will earn depends on your decisions and on the decisions of the person from the list. The person also knew that he/she was paired with a person from a different school.
[Go over the activities one more time, including the control questions]

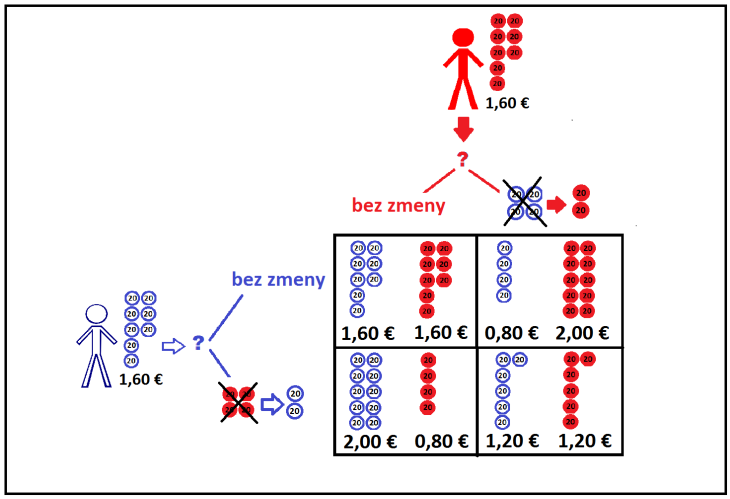
2.5 After all activities

We will now pair the decisions you have made with the decisions of the persons with whom you were matched. You will learn how much money you earned in a bit and then you will be able to choose things from our catalogue for that money.
But before that I will ask you to fill out short questionnaires.
[Fill in the questionnaires]
Ok, that's it; please follow me to our "shop" to find out how much money you earned and to choose things for that money.

2.6 Visual aids



Joy of Destruction game, Individual condition



Prisoner's Dilemma game, Individual condition

3. *GroupContext_1* and *Group* conditions

Notes: There were two versions of the protocol, manipulating whether the counterpart was another group of three persons (presented here) or whether the counterpart was an individual (not presented, the counterpart is described analogously to the Individual treatment).

[in a separate room]

3.1 Introduction

Hello, my name is XXX.
Now please look at your ID card. There is a letter and a number. Look at the letter. It is your group's letter. There are two more kids with the same letter on the card, so you will be three in one group. There are desks here that have letters written on them. Please go sit at the desk with the same letter as you have on your ID card to find out who is in your group.
Ok, now you know who is in your group.
We will go through some activities together. Please do not talk to anyone else unless I tell you so, or you will have to leave. This is very important. If one talks to others about the activity, it is possible for one person to spoil the activity for everyone. I will tell you when you will have time to discuss the activity inside your group.
As we said, you can earn some money in these activities. This money can be used to order things from our shop. The things that you order will be delivered to you during the next month.
These are the catalogues from the shop *[distribute the catalogues]*. You will now have some time to go through them.
[After 3 minutes]: Now please give me back the catalogue. You will have more time to go through the catalogue after the activities.
What is important is that everybody in the group will be paid the same. Therefore when I speak about how much a group gets, it means how much each one of you gets. So, for example, if your group gets 1 euro, it means each one of you in the group gets 1 euro.
We will start with two activities. Your group will be asked to make 6 decisions. Only one of the decisions will count for payment. Exactly which one will be chosen randomly after the activities are finished. We have a bag of balls marked 1-6 *[show them the bag],* where each ball represents one decision. In the end, one of your classmates will pick a ball from the bag without looking. If the ball with number 1 is picked, you will be paid for the first decision, if number 6 is picked, you will be paid for the 6th decision and the same thing for all the other numbers. Therefore, you have to be careful and pay attention to every decision you make as all the decisions can count for payment.
First I will explain the first activity, then I will ask you to make one decision as an individual, and then you will work in your group.
You will be told how much money you made only at the end of all activities and then you will have time to choose things from our catalogue for that money.
Is everything clear?
[Answer questions if there are some.]

3.2 Joy of Destruction game (JDG)

We will now start with the first/second activity.

1. [Partner]

[If JDG as a first activity:]

In this activity you are paired with a group of three people from a different school. They were also making their decisions anonymously, so we know only their ID numbers. But we have a list of people from that school and we will show it to you. So you do not know with whom exactly you are matched, but for sure it is three people from this list.

[Distribute the name list A or B]

We will read the list together now *[read the list out loud]*.

The group that you are paired with has already gone through these activities and was asked to make the same decisions as you will do now. This is important as the amount of money you will earn depends on your decisions and on the decisions of the people from the list. The three people from the list were also making decisions together as a group. The other group also knew that they were paired with a group of three people from a different school, who were deciding together.

[If JDG as a second activity:]

In this activity you are again paired with a group of three people from the list that I have given you. Again, we do not know which people specifically, it is still someone from this list, but different people from the ones before.

2. [Procedure]

I will now show what your task is using this picture *[show them the poster]*. I will also give a small version of this picture to each of you *[distribute the small pictures]*.

In this picture I'll use the red figures to represent your group [*point to the red figures in the picture]*, and the blue figures to represent the other group with whom you are matched [*point to the blue figures in the picture]*.

Both your group and the other group receive 2 euro, which I show with these coins *[point to the coins next to the red and blue figures in the picture].* Your group *[point to the red figures in the picture]* then has to decide between two options. Your group can reduce the other group's money or you can leave the money unchanged *[show these options in the picture – red figures]*.

Reducing the other group's money will cost your group 20 cents [*show the 20 cents in the picture]*. By paying 20 cents, you reduce the other group's income by 1 euro [*point this in the picture*]. The other group was asked to make the same decision [*point to the blue figures in the picture*]. They were choosing between reducing your group's money by 1 euro and leaving your group's money unchanged *[show these options in the picture – blue figure].* The other group had to pay 20 cents if they wanted to reduce your group's money.

What you get therefore depends on the decision of your group and on the decision of the group from the list.

- If the other group decides to leave the money unchanged and your group also decides to leave the money unchanged *[show the chosen options in the picture as you speak],* then your group will earn 2 euro and the other group will also earn 2 euro *[show the payoffs]*. As I said before, what a group gets means how much each one of you gets; therefore each person in your group will get 2 euro and each person in the other group will get 2 euro.

- If the other group decides to leave the money unchanged and your group chooses to reduce the other group's money *[show the chosen options in the picture]*, then your group will earn 1 euro and 80 cents and the other group will earn 1 euro *[show the payoffs]*.
- If the other group decides to reduce your group's money and your group chooses to leave the money unchanged *[show the chosen options in the picture]*, then your group will earn 1 euro and the other group will earn 1 euro and 80 cents *[show the payoffs*].
- If the other group decides to reduce your group's money and your group also chooses to reduce the other group's money *[show the chosen options in the picture]*, then both your group and the other group will earn 80 cents [*show the payoffs]*. This is because your group has 2 euro at the beginning, then you pay 20 cents to reduce the other group's money, which would be 1 euro and 80 cents, but the other group also decided to reduce your group's money by 1 euro, which makes it 80 cents.

[Distribute the control questions]

Please, take the answer sheet that I gave you. Write your group letter from the ID card in the top-right corner.

3. [Control questions]

First I will ask some questions to make sure everything is clear. You will have time to talk about the questions in your group and agree on a group answer. The small pictures will help you answer the questions. Please write your answers in the answer sheet [*use the enlarged answer sheet to show where they should write]*

1) If the other group decides to leave the money unchanged and your group also decides to leave the money unchanged, how much will your group get? And how much will the other group get?
2) If the other group decides to leave the money unchanged and your group decides to reduce the group's money, how much will your group get? And how much will the other group get?
3) If the other group chooses to reduce your group's money and your group chooses to leave the money unchanged, how much will your group get? And how much will the other group get?
4) If the other group chooses to reduce your group's money and your group also chooses to reduce the other group's money, how much will your group get? And how much will the other group get?

Please put the filled answer sheets in the box over there.

4. [Decision 1 - Unconditional Decision]

Now I will ask you to make your decision. I will step over there so that you have time to think it over. You will not be giving the filled answer sheets to me. You will put them in the box over there so that your decisions stay anonymous.

a. *GroupContext_1* decisions

I will first ask each person how they would like their group to decide. Please do not talk to anyone; you will have time to decide as a group later.

So for just now, please go sit further from each other. [*Separate the persons so that they cannot copy*].

I will give an answer sheet to each person. Write your group letter and the number from your ID card in the top-right corner.
So, how would you like your group to decide?
Your group has 2 euro. Do you want to pay 20 cents and reduce the other group's income by 1 euro? *[Illustrate it one more time in the picture]* Or, do you want to leave the money unchanged?
The other group was asked to make the same decision.
What do you want to do if you do not know what the other group has chosen?
Please think about your decision carefully. *[Leave a while to think about the decision]*
Mark the option you want to choose in the answer sheet. If you want your group to pay 20 cents to reduce the other group's income by 1 euro, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
Please make your decision now.
Please check that you have marked your ID number and then put the answer sheet into the box.

b. *Group* decision

Now you can go sit back at your group's desk.
I will give you your group answer sheet. Write your group letter in the top-right corner.
You will be asked to decide as a group now. I will step over there so that you have time to think it over. You will not be giving the filled answer sheets to me. You will put them in the box over there so that your decisions stay anonymous.
[When everyone is ready]: The situation is the same.
Your group has 2 euro. Do you want to pay 20 cents and reduce the other group's income by 1 euro? *[Illustrate it one more time in the picture]* Or, do you want to leave the money unchanged?
The other group was asked to make the same decision.
What do you want to do if you do not know what the other group has chosen?
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision.
Mark the option you want to choose in the answer sheet. If your group wants to pay 20 cents to reduce the other group's income by 1 euro, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
When you are done, raise your hand and wait until everybody is finished.
[*After 2 minutes, 3 minutes: Is any group still working? – if not, can continue. If yes, "*ok, you have two more minutes*"]*
[*After 4 minutes: "*Please make your decision now."]

5. [Beliefs - Group]

Turn to the next page of the answer sheet.
I will now ask you to guess what the other group did. Do you believe that the other group decided to pay 20 cents to reduce your group's money by 1 euro? Or do you believe the other group left your money unchanged*?*
What do you think the other group has chosen?
Please think carefully about your guess. You have 4 minutes to talk about it in your group and agree on your guess as a group.
Mark the option you want to choose in the answer sheet. If you believe the other group decided to reduce your group's money by 1 euro, mark the first option. If you believe that the other group left your money unchanged, mark the second option [*show it on the enlarged answer sheet*].
When you are done, raise your hand and wait until everybody is finished.

[*After 2 minutes, 3 minutes: "Is any group still working?" – if not, can continue. If yes, "*ok, you have two more minutes*"]*
[*After 4 minutes: "*Please make your guess now."]

6. [Decision 2 and 3 - Conditional Decisions - Group]

The other group was deciding between paying 20 cents to reduce your group's money by 1 euro and leaving the money unchanged *[show the options in the picture].* The other group has already decided, but for now we do not know how.

[First situation:]
First option is that the other group chose to leave your group's money unchanged *[point to the first row of the picture].*
How do you decide? Do you pay 20 cents to reduce the other group's money by 1 euro? If you choose this, then your group will earn 1 euro and 80 cents and the other group will earn 1 euro. Or, do you leave the other group's money unchanged? If you choose this, then your group will earn 2 euro and the other group will earn 2 euro. *[Show the options in the picture].*
Take your answer sheet and concentrate on the decision number 2 *[show it on the enlarged answer sheet].*
You have 2 euro. **How do you decide if you know that the other group left the money unchanged?**
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision.
Mark the option you want to choose in the answer sheet. If you want to pay 20 cents to reduce the other group's money by 1 euro, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
When you are done, raise your hand and wait until everybody is finished.
[*After 2 minutes, 3 minutes: Is any group still working? – if not, can continue. If yes, "*ok, you have two more minutes*"]*
[*After 4 minutes: "*Please make your decision now."]
[Second situation:]
Second option is that the other group chose to pay 20 cents to reduce your group's money by 1 euro [*point to the right column of the picture]*.
How do you decide? Do you pay 20 cents to reduce the other group's money by 1 euro? If you choose this, then your group will earn 80 cents and the other group will earn 80 cents. Or, do you leave the other group's money unchanged? If you choose this, then your group will earn 1 euro and the other group will earn 1 euro and 80 cents. *[Show the options in the picture].*
Take your answer sheet and concentrate on the decision number 3 *[show it on the enlarged answer sheet].*
You have 2 euro. **How do you decide if you know that the other group reduced your group's money?**
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision.
Mark the option you want to choose in the answer sheet. If you want to pay 20 cents to reduce the other group's money by 1 euro, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
When you are done, raise your hand and wait until everybody is finished.

[*After 2 minutes, 3 minutes: Is any group still working? – if not, can continue. If yes, "*ok, you have two more minutes*"]*
[*After 4 minutes: "*Please make your decision now."]
Please check that you have marked your group letter and then put the answer sheet into the box.

7. [End of activity]

I will now take the small pictures from you. Please do not talk to anyone else or you will spoil the activity for everyone.
[If JDG as a first activity: proceed to the "PDG"]
[If JDG as a second activity: continue to the "Second round of activities"]

3.3 Prisoner's Dilemma game (PDG)

We will now start with the first/second activity.

1. [Partner]

[If PD as a first activity:]
In this activity you are paired with a group of three people from a different school. They were also making their decisions anonymously, so we know only their ID numbers. But we have a list of people from that school and we will show it to you. So you do not know with whom exactly you are matched, but for sure it is three people from this list.
[Distribute the name list A or B]
We will read the list together now *[read the list out loud].*
The group that you are paired with has already gone through these activities and was asked to make the same decisions as you will do now. This is important as the amount of money you will earn depends on your decisions and on the decisions of the people from the list. The three people from the list were also making decisions together as a group. The other group also knew that they were paired with a group of three people from a different school, who were deciding together.
[If PD as a second activity:]
In this activity you are again paired with a group of three people from the list that I have given you. Again, we do not know which people specifically, it is still someone from this list, but different people from the ones before.

2. [Procedure]

I will now show what your task is using this picture *[show them the poster]*. I will also give a small version of this picture to each of you *[distribute the small pictures].*
In this picture I'll use the red figures to represent your group [*point to the red figures in the picture]*, and the blue figures to represent the other group with whom you are matched [*point to the blue figures in the picture]*.
Both your group and the other group receive 1 euro and 60 cents, which I show with these coins *[point to the coins next to the red and blue figures in the picture].* Your group *[point to the red figures in the picture]* then has to decide between two options. Your group can take 80 cents euro from the other group to get 40 cents for your group *[show this option in the picture – red*

figures], or you can leave the money unchanged *[show this option in the picture – red figures]*. The other group was asked to make the same decision [*point to the blue figures in the picture*]. They were choosing between taking 80 cents from your group *[show this option in the picture – blue figures]* and leaving your group's money unchanged *[show this option in the picture – blue figures].* If the other group took 80 cents from your group, they would get 40 cents.
What you get therefore depends on the decision of your group and on the decision of the group from the list.
- If the other group decides to leave the money unchanged and your group also decides to leave the money unchanged *[show the chosen options in the picture as you speak],* then your group will earn 1 euro and 60 cents and the other group will also earn 1 euro and 60 cents *[show the payoffs]*. As I said before, what a group gets means how much each one of you gets; therefore each person in your group will get 1 euro and 60 cents and each person in the other group will get 1 euro and 60 cents
- If the other group decides to leave the money unchanged and your group chooses to take 80 cents from the other group to get 40 cents for yourself *[show the chosen options in the picture]*, then your group will earn 2 euros and the other group will earn 80 cents *[show the payoff]*.
- If the other group decides to take 80 cents from your group and your group chooses to leave the money unchanged *[show the chosen options in the picture]*, then your group will earn 80 cents and the other group will earn 2 euro *[show the payoffs*].
- If the other group decides to take 80 cents from your group and your group chooses to take 80 cents from the other group *[show the chosen options in the picture]*, then both your group and the other group will earn 1 euro and 20 cents [*show the payoffs]*. This is because your group has 1 euro 60 cents at the beginning, then you get 40 cents by taking 80 cents from the other group, which would be 2 euros, but the other group also takes 80 cents from your group, which makes it 1 euro and 20 cents.

[Distribute the control questions]
Please, take the answer sheet that I gave you. Write your group letter from the ID card in the top-right corner.

3. [Control questions]

First I will ask some questions to make sure everything is clear. You will have time to talk about the questions in your group and agree on a group answer. The small pictures will help you answer the questions. Please write your answers in the answer sheet [*use the enlarged answer sheet to show where they should write].*

1) If the other group decides to leave the money unchanged and your group also decides to leave the money unchanged, how much will your group get? And how much will the other group get?
2) If the other group decides to leave the money unchanged and your group decides to take 80 cents from him/her, how much will your group get? And how much will the other group get?
3) If the other group chooses to take 80 cents from your group and your group chooses to leave the money unchanged, how much will your group get? And how much will the other group get?

4) If the other group chooses to take 80 cents from your group and your group chooses to take 80 cents from them, how much will your group get? And how much will the other group get?

Please put the filled answer sheets in the box over there.

4. [Decision 1 - Unconditional Decision]

Now I will ask you to make your decision. I will step over there so that you have time to think it over. You will not be giving the filled answer sheets to me. You will put them in the box over there so that your decisions stay anonymous.

a. *GroupContext_1* decisions

I will first ask each person how they would like their group to decide. Please do not talk to anyone; you will have time to decide as a group later.
So for just now, please go sit further from each other. [*Separate the persons so that they cannot copy*].
I will give an answer sheet to each person. Write your group letter and the number from your ID card in the top-right corner.
So, how would you like your group to decide?
Your group has 1 euro and 60 cents. Do you want to take 80 cents from the other group to get 40 cents for your group? *[Illustrate it one more time in the picture].* Or, do you want to leave the money unchanged? The other group was asked to make the same decision.
What do you want to do if you do not know what the other group has chosen?
Please think about your decision carefully. *[Leave a while to think about the decision]*
Mark the option you want to choose in the answer sheet. If you want to take 80 cents from the other group to get 40 cents for your group, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
Please make your decision now.
Please check that you have marked your ID number and then put the answer sheet into the box.

b. *Group* decision

Now you can go sit back at your group's desk.
I will give you your group answer sheet. Write your group letter in the top-right corner.
You will be asked to decide as a group now. I will step over there so that you have time to think it over. You will not be giving the filled answer sheets to me. You will put them in the box over there so that your decisions stay anonymous.
[When everyone is ready]: The situation is the same.
Your group has 1 euro and 60 cents. Do you want to take 80 cents from the other group to get 40 cents for your group? *[Illustrate it one more time in the picture].* Or, do you want to leave the money unchanged? The other group was asked to make the same decision.
What do you want to do if you do not know what the other group has chosen?
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision.

Mark the option you want to choose in the answer sheet. If you want to take 80 cents from the other group to get 40 cents for your group, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
When you are done, raise your hand and wait until everybody is finished.
[*After 2 minutes, 3 minutes: "Is any group still working?" – if not, can continue. If yes, "*ok, you have two more minutes*"]*
[*After 4 minutes: "*Please make your decision now."]

5. [Beliefs - Group]

Turn to the next page of the answer sheet.
I will now ask you to guess what the other group did. Do you believe that the other group decided to take your group's money by 80 cents to get 40 cents for themselves? Or do you believe the other group left your money unchanged*?*
What do you think the other group has chosen?
Please think carefully about your guess. You have 4 minutes to talk about it in your group and agree on your guess as a group.
Mark the option you want to choose in the answer sheet. If you believe the other group decided to take your group's money by 80 cents, mark the first option. If you believe that the other group left your money unchanged, mark the second option [*show it on the enlarged answer sheet*].
When you are done, raise your hand and wait until everybody is finished.
[*After 2 minutes, 3 minutes: "Is any group still working?" – if not, can continue. If yes, "*ok, you have two more minutes*"]*
[*After 4 minutes: "*Please make your guess now."]

6. [Decision 2 and 3 - Conditional Decisions - Group]

The other group was deciding between taking 80 cents from your group to get 40 cents and leaving the money unchanged *[show the options in the picture].* The other group has already decided, but for now we do not know how.

[First situation:]
First option is that the other group chose to leave your group's money unchanged *[point to the first row of the picture].*
How do you decide? Do you take 80 cents from the other group's money to get 40 cents for your group? If you choose this, then your group will earn 2 euros and the other group will earn 80 cents. Or, do you leave the other group's money unchanged? If you choose this, then your group will earn 1 euro and 60 cents and the other group will earn 1 euro and 60 cents. *[Show the options in the picture].*
Take your answer sheet and concentrate on the decision number 2 *[show it on the enlarged answer sheet].*
You have 1 euro and 60 cents. **How do you decide if you know that the other group left the money unchanged?**
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision.
Mark the option you want to choose in the answer sheet. If you want to take 80 cents from the other group to get 40 cents for your group, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].

When you are done, raise your hand and wait until everybody is finished.
[*After 2 minutes, 3 minutes: Is any group still working? – if not, can continue. If yes, "*ok, you have two more minutes*"]*
[*After 4 minutes: "*Please make your decision now."]

[Second situation:]
Second option is that the other group chose to take 80 cents from your group to get 40 cents for themselves [*point to the second row of the picture]*.
How do you decide? Do you take 80 cents from the other group's money to get 40 cents for your group? If you choose this, then your group will earn 1 euro and 20 cents and the other group will earn 1 euro and 20 cents. Or, do you leave the other group's money unchanged? If you choose this, then your group will earn 80 cents and the other group will earn 2 euros *[show the options in the picture]*.
Take your answer sheet and concentrate on the decision number 3 *[show it on the enlarged answer sheet]*.
You have 1 euro and 60 cents. **How do you decide if you know that the other group took money from your group?**
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision.
Mark the option you want to choose in the answer sheet. If you want to take 80 cents from the other group to get 40 cents for your group, mark the first option. If you want to leave the money unchanged, mark the second option [*show it on the enlarged answer sheet*].
When you are done, raise your hand and wait until everybody is finished.
[*After 2 minutes, 3 minutes: Is any group still working? – if not, can continue. If yes, "*ok, you have two more minutes*"]*
[*After 4 minutes: "*Please make your decision now."]
Please check that you have marked your group letter and then put the answer sheet into the box.

7. [End of activity]

I will now take the small pictures from you. Please do not talk to anyone else or you will spoil the activity for everyone.
[If PDG as a first activity: proceed to the "JDG"]
[If PDG as a second activity: continue to the "Second round of activities"]

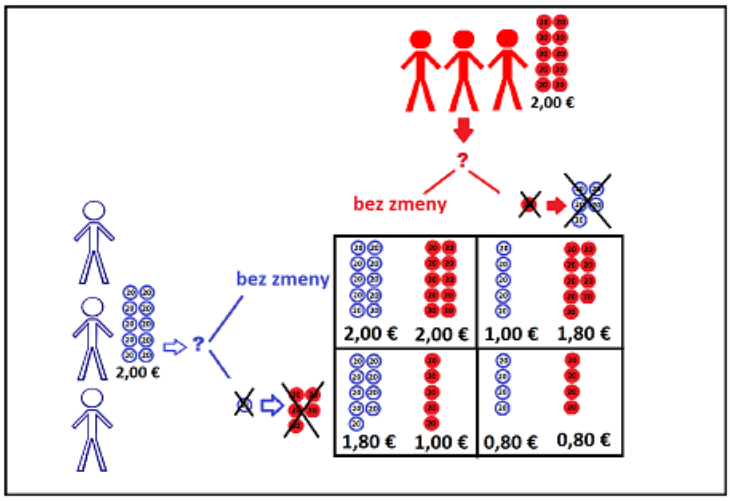
3.4 Second round of activities

This is it for the first two activities. Your group will be paid for one of the decisions you have just made. You will learn how much money you earned after all activities.
Please give me back the list of names that you got at the beginning.
We will now go over the activities one more time. Your group will be asked to make 6 more decisions. One of the decisions will again count for payment. As before, we will choose which decision will count by drawing a ball from a bag. You therefore have to pay attention to every decision you make.
The activities will be exactly the same as before, except that your group will be paired with a different group of three people from yet a different school. As before, neither you nor I know at this moment which people they are, but for sure they are someone from this second list
[Distribute the name list A or B to the persons.]
We will read the list together now *[read the list out loud].*
Also this group has already gone through these activities and was asked to make the same decisions as you will do now. The amount of money you will earn depends on the decisions of your group and on the decisions of the people from the list. The three people from the list were also making decisions together as a group. The other group also knew that they were paired with a group of three people from a different school, who were deciding together.
[Go over the activities one more time, including the control questions]

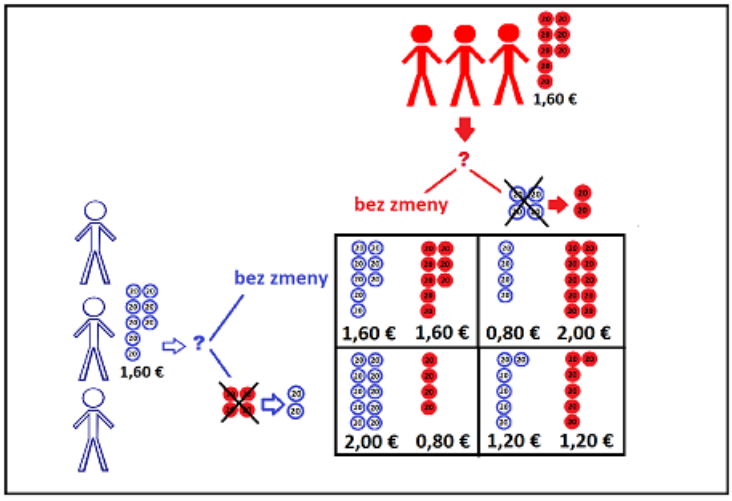
3.5 After all activities

We will now pair the decisions your group has made with the decisions of the groups with whom you were matched. You will learn how much money you earned in a bit and then you will be able to choose things from our catalogue for that money.
But before that I will ask you to fill out short questionnaires.
[Fill in the questionnaires]
Ok, that's it; please follow me to our "shop" to find out how much money you earned and to choose things for that money.

3.6 Visual aids



Joy of Destruction game, Group condition



Prisoner's Dilemma game, Group condition

V. EXPERIMENTAL INSTRUCTIONS
PILOT EXPERIMENT 2: ADOLESCENTS, UGANDA

English translation (instructions were given in Luganda language)

1. Greeting and introductory instructions for the whole class

[To all at the same time, when seated]
Welcome. My name is *(experimenter's name)* and my assistants are *[assistants' names].* Today you will participate in three different activities; in each activity you will have a chance to earn money. The activities will all together take about 2 hours.
If you follow the instructions carefully, you can earn a considerable amount of money. All the money you earn will be yours to keep. What you earn in one activity will not affect how much you can earn in the other activities. The money that you earn will be paid to you in private after all three activities end. No one will know how much money you earned. We will not tell your classmates, teachers, parents or anybody else. In addition to any money you might get in the activities, you will be paid 100USh for taking part. This 100USh is for you, for your time and effort in the activities. It will be paid at the end of all activities.
[Researcher's name] will be supplying the money. But you should understand that this is not *[researcher's name]* own money. It is money given to him/her by Charles University in Prague to use for research. The money is NOT from a charity or from the government.
Before each activity I will give you instructions. I will also show you some examples. We want you to understand everything well before you start. Always pay very careful attention to the instructions, because the better you understand them, the more money you can earn. Please do not talk to each other from this point on. If you have a question, you can raise your hand and ask. Otherwise, please be quiet and listen carefully, just like you listen to your teacher in school.
The choices you will make today are very important for us and will be kept secret. Only we will know, but the principal, teachers and the charity will not know about it. We will not tell them.
You can also choose not to participate in the activities and you can leave at any time during the activities. If you do NOT want to do the activities, please leave the classroom now.
Now do you all want to participate? All right, everyone who wants to participate has to draw a card from one of these two boxes. As we have two boxes, please form two lines, boys here and girls there *[experimenter points to the boxes. If the class is too small, they will exit the classroom one by one, boy or girl, and each will get a card from a particular box]*, and one by one please take a card from the box. This card is very important and you must have it during all activities you will do today. You will hand it in when you receive your payment at the end. Do you have any questions?
[When all students have the cards]
Now please show me your cards. Everyone who has a green card like this, please go out with the man over there and take a book and a pen. The rest of you please stay here with me.

2. *Individual* condition

[in a separate room]

[Answer sheets are distributed and collected by assistants between the decisions, subjects always have only one answer sheet to work with.]

2.1 Joy of Destruction game (JDG)

Welcome to the first/second/third activity you will do today. This activity will take about half an hour. In this activity we will ask you to make a few decisions. If you listen carefully to the instructions, you can earn some money. You will be paid for only one of the decisions you will make in this activity. I won't tell you now for which one, so you have to be careful and pay attention to every decision you make. You will be paid at the end of all the activities.

1. [Procedure]

In this activity you are randomly matched with either a girl or a boy from your class. *[If done as 2nd or 3rd: "This kid is most probably a different one than in the previous activity."]* This kid will make the same decision as you. We will not tell you who the kid is, and this kid will never learn about you. *[If they ask, tell them "We will select the kid only after the end of the activity."]* I will now show in these pictures what your task is. You also have these pictures on your desk. In these pictures I'll use the red figure to represent you [*point to the red figure in the picture]*, and the blue figure to represent the other kid with whom you are matched [*point to the blue figure in the picture]*.
Both you and the other kid receive 1000 USh, which I show with these rectangles *[point to rectangles next to the red and blue figure in the picture]*. You [*point to the red figure in the picture*] then have to decide between two options. You can reduce the kid's money or you can leave the money unchanged *[show this option in the picture – red figure]*. Reducing the kid's money will cost you 100 USh [*show this in the picture – red figure rectangle]*. By paying 100 USh, you reduce the kid's income by 500 USh [*point to the blue figure in the picture*]. At the same time the other kid makes the same decision. He/she can choose between reducing your money by 500 USh and leaving your money unchanged [*show these options in the picture-blue figure*]. The kid will have to pay 100 USh if he/she chooses to reduce your money.
The possible situations then are *[turn to picture]*:
- If both of you choose to leave the money unchanged *[show the chosen options in the picture as you speak]*, both of you will earn 1000 USh [*show the payoffs*].
- If both of you choose to reduce the other person's money *[show the chosen options in the picture as you speak]*, both of you will earn 400 USh [*show the payoffs*]. This is because at the beginning you have 1000 USh, you pay 100 USh to reduce the kid's money, but the kid decided to reduce your money by 500 USh.
- If you choose to leave the money unchanged, and he/she decides to reduce yours *[show the chosen options in the picture as you speak]*, you will earn 500 USh and the kid will earn 900 USh [*show the payoffs*].
- If you choose to reduce the kid's money *[show the chosen options in the picture as you speak]*, and he/she decides to leave the money unchanged, you will earn 900 USh and the other kid will earn 500 USh *[show the payoffs]*.

2. [Control questions]

Please, take the answer sheet you have on your desk. Write the number of your card in the top left corner.
First I will ask some questions to make sure it is clear.

1) If you choose to leave the money unchanged and the other kid chooses to leave the money unchanged, how much will you get? And how much will the other kid get?
2) If you choose to leave the money unchanged and the other kid chooses to reduce your money, how much will you get? And how much will the other kid get?
3) If you choose to reduce the other kid's money and the other kid chooses to leave the money unchanged, how much will you get? And how much will the other kid get?
4) If you choose to reduce the other kid's money and the other kid chooses to reduce your money, how much will you get? And how much will the other kid get?

3. [Decision 1 - Unconditional Decision]

Now I will ask you to make your decision number 1.
You now have 1000 USh. Do you want to pay 100 USh and reduce the other kid's income by 500 USh?*[Illustrate it one more time in the picture]* Or, do you want to leave the money unchanged?
The other kid is now also making the same decision.
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision now. Tick the option you want to choose in the answer sheet.

4. [Decision 2 - Beliefs]

Turn to the next page in the answer sheet.
I will now ask you to guess what the other kid did. Do you believe that the kid decided to reduce your money by 500 USh by paying 100 USh? Or do you believe the kid left your money unchanged?
Please think carefully about your guess. *[Leave a while for thinking about the decision]*
Please make your decision number 2 now. Tick the option you want to choose in the answer sheet.

5. [Decision 3 and 4 - Conditional Decisions]

I will now ask you to imagine two situations in this activity and answer what would you do in each of them. The setup is exactly the same as in the previous part but now imagine you know what the other kid did.

[First situation:]
First situation: The other kid was deciding between paying 100 USh for reducing your money by 500 USh and leaving the money unchanged *[show the options].* Imagine you knew that the kid chose NOT to reduce your money *[point to the bottom part of the picture]*. What would you do then?
Would you pay 100 USh to reduce the other kid's money by 500 USh? If you choose this, you will earn 900 USh and the other kid will earn 500 USh. Or, would you leave the kid's money unchanged? If you choose this, you will earn 1000 USh and the other kid will earn 1000 USh. *[Show the options on the picture].*
Take the answer sheet you have on your desk.
You have 1000 USh. Imagine that the other kid decided NOT to reduce your money.
Do you want to pay 100 USh to reduce the other kid's money by 500 USh? Or, do you want to leave the money unchanged? *[Show the options on picture].*
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision number 3 now. Tick the option you want to choose in the answer sheet.
[Second situation:]
Second situation: Imagine now you knew that the other kid chose to reduce your money. *[Point to the picture]*What would you do then? Would you pay 100 USh to reduce the other kid's money by 500 USh? If you choose this, you will get 400 USh and the other kid will get 400 USh. Or, would you leave the kid's money unchanged? If you choose this, you will get 500 USh and the other kid will get 900 USh. *[Show the options on the picture].*
Take the answer sheet you have on your desk.
You have 1000 USh. Imagine that the other kid decided to pay 100 USh and reduced your money by 500 USh.
Do you want to pay 100 USh to reduce the other kid's income by 500 USh? Or, do you want to leave the money unchanged? *[Illustrate it one more time in the picture].*
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision number 3 now. Tick the option you want to choose in the answer sheet.

6. [End of activity]

When you are done with your decisions, please remain seated and wait until everybody is finished. Then we will collect your answer sheets, randomly match you with one of the other kids and pair your decisions. You will learn the final amount of money only after the end of all activities.

2.2 Prisoner's Dilemma game (PDG)

Welcome to the first/second/third activity you will do today. This activity will take about half an hour. In this activity I will ask you to make a few decisions. If you listen carefully to the instructions, you can earn some money. You will be paid for only one of the decisions you will make in this activity. I won't tell you now or which one, so you have to be careful and pay attention to every decision you make. You will be paid at the end of all the activities.

1. [Procedure]

In this activity you are randomly matched with either a girl or a boy from your class. This kid will make the same decision as you. *[If done as 2nd or 3rd: "This kid is most probably a different one than in the previous activity."]* We will not tell you who the kid is, and this kid will never learn about you. *[If they ask, tell them "We will select the kid only after the end of the activity."] [hand out small pictures and answer sheets]*
From these pictures I will now show what your task is. You also have these pictures on your desk. In these pictures I'll use the red figure to represent you [*point to the red figure in the picture]*, and the blue figure to represent the other kid with whom you are matched [*point to the blue figure in the picture]*.
Both you and the other kid receive 800 USh, which I show with these rectangles *[point to the rectangles next to the red and blue figure in the picture].* Each rectangle represents 100 USh. You *[point to the red figure in the picture]* then have to decide between two options. You can either take 400 USh from the kid to get 200 USh for yourself *[show this option in the picture – red figure]*, or you can leave the money unchanged *[show this option in the picture – red figure]*. The kid at the same time makes the same decision [*point to the blue figure in the picture*]. He/she can choose between taking you 400 USh *[show this option in the picture – blue figure]* and leaving your money unchanged *[show this option in the picture – blue figure].*If he/she takes you 400 USh, he/she gets 200 USh.
The possible situations then are *[turn to picture]:*
- If both of you choose to leave the money unchanged *[show the chosen options in the picture as you speak],* both of you will earn 800 USh *[show the payoffs]*.
- If both of you choose to take money from the other*[show the chosen options in the picture]*, both of you will earn 600 USh [*show the payoffs]*.This is because you have 800 USh , you get 200 USh by taking 400 USh from the kid, but the kid also takes 400 USh from you.
- If you choose to leave the money unchanged, and the kid decides to take you 400 USh *[show the chosen options in the picture]*, you will earn 400 USh and the other kid will earn 1000 USh *[show the payoffs*].
- If you choose to take 400 USh from the kid, and he/she decides to leave the money unchanged *[show the chosen options on picture]*, you will earn 1000 USh and the other kid will earn 400 USh *[show the payoffs]*.

2. [Control questions]

Please, take the answer sheet you have on your desk. Write the number of your card in the top left corner.
First I will ask some questions to make sure it is clear. Please write your answers in the answer sheet.

1) If you choose to leave the money unchanged and the other kid chooses to leave the money unchanged, how much will you get? And how much will the other kid get?
2) If you choose to leave the money unchanged and the other kid chooses to take 400 USh from you, how much will you get? And how much will the other kid get?
3) If you choose to take 400 USh from the other kid and the other kid chooses to leave the money unchanged, how much will you get? And how much will the other kid get?
4) If you choose to take 400 USh from the other kid and the other kid chooses to take 400 USh from you, how much will you get? And how much will the other kid get?

3. [Decision 1 - Unconditional Decision]

Now I will ask you to make your decision.
You now have 800 USh. Do you want to take 400 USh from the other kid to get 200 USh for yourself? *[Illustrate it one more time in the picture].* Or, do you want to leave the money unchanged? The other kid is now also making the same decision.
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision number 1 now. Tick the option you want to choose in the answer sheet.

4. [Decision 2 - Beliefs]

Turn over the answer sheet. I will now ask you to guess what the other kid did. Do you believe that the kid decided to take your money by 400 USh to get 200 USh for himself/herself? Or do you believe the kid left your money unchanged*?*
Please think carefully about your guess. *[Leave a while for thinking about the decision]*
Please make your decision number 2 now. Tick the option you want to choose in the answer sheet.

5. [Decision 3 and 4 - Conditional Decisions]

I will now ask you to imagine two situations in this activity and answer, what would you do in each of them. The setup is exactly the same as in the previous part, but now imagine you know what the other kid did.
[First situation:]
First situation: The other kid was deciding between taking 400 USh from you to get 200 USh and leaving the money unchanged *[show the options on picture].* Imagine you knew that the kid chose NOT to take any of your money to increase his/her reward *[point to the bottom part of picture].* What would you do then?
Would you take 400 USh from the kid's money to get 200 USh for yourself? If you choose this, then you will earn 1000 USh and the other kid will earn 400 USh. Or, would you leave the kid's

money unchanged? If you choose this, then you will earn 800 USh and the other kid will earn 800 USh. *[Show the options in the picture].*
Take the answer sheet you have on your desk.
You have 800 USh. Imagine that the other kid decided NOT to take any money from you.
Do you want to take 400 USh from the other kid to get 200 USh for yourself? *[Illustrate it one more time in the picture]* Or, do you want to leave the money unchanged? Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision number 3 now. Tick the option you want to choose in the answer sheet.

[Second situation:]

Second situation: The other kid was deciding between taking 400 USh from you to get 200 USh and leaving the money unchanged.
[Turn to picture]
Imagine now you knew that the kid chose to take 400 USh from you to get 200 USh for himself/herself [*point to the bottom part of picture*]. What would you do then? Would you take 400 USh from the kid's money to get 200 USh for yourself? If you choose so, then you will earn 600 USh and the other kid will earn 600 USh. Or, would you leave the kid's money unchanged? If you choose so, then you will earn 400 USh and the other kid will earn 1000 USh *[show the options in the picture].*
Take the answer sheet you have on your desk.
You have 800 USh. Imagine that the other kid decided to take 400 USh from you.
Do you want to take 400 USh from the kid to get 200 USh for yourself? Or, do you want to leave the money unchanged? *[Illustrate it one more time in the picture]*
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision number 4 now. Tick the option you want to choose in the answer sheet.

6. [End of activity]

When you are done with your decisions, please remain seated and wait until everybody is finished. Then we will collect your answer sheets, randomly match you with one of the other kids and pair your decisions. You will learn the final amount of money only after the end of all activities.

2.3 Competitiveness game

1. [Introduction]

Welcome to the first/second/third activity you will do today. It has three rounds and will take about an hour. In this activity I will ask you to make a few decisions and solve some puzzles. If you listen carefully, you can earn some money. So pay close attention to the instructions, and ask questions if you do not understand, because it may affect how much money you earn. You will be paid at the end of all the activities.

2. [Selection of payment for competitiveness - drawing cards]

As I said, there will be three rounds. You will be paid only for one of the three rounds. At the end of this activity, we will randomly select one of them. How will we do it: There are three cards *[experimenter shows them to all kids]* and each has a number 1 through 3. This number means the round which you will be paid for. These are the three cards. This one is for the first round, this one is for the second round and this one is for the third round *[Experimenter places cards in bag]*. One of you will pick a card just as this man/woman is going to show you right now. *[Experimenter picks one card from the bag without seeing what he picks]*. You will be paid based on how well you did in the picked round. This one card will choose the round for all of you. Before each round, I will explain to you exactly how you can earn money in that round.

3. [Puzzle + example]

In each round you will solve puzzles. Now I will show you how to solve a puzzle.
This is the puzzle. Your task is to find the **shortest** way from start to the end. On the way there you have to pass a letter. When you make it to the end of the puzzle, you will also know the letter that you passed on the way. The solution of the puzzle is the letter that you had to pass on the shortest way to the other end. You should circle that letter.
Now I will show you how to solve the puzzle *[Experimenter illustrates each of her statements by drawing on the poster with the maze, which she solves].*You see that here the solution is the letter D. Every puzzle has only one solution, so please circle only the one letter that you think is the correct one.
You have one puzzle on the answer sheet on your desk. Write the number and the letter of your card in the top-left corner. Now I will ask you to solve it as practice. I will give you two minutes to do this. Try to find the correct path and circle the letter that you pass on the way. If you don't understand something, raise your hand, and I will come to you. [*Experimenter allows two minutes for the children to work on the practice maze.]*
Does anyone have any questions about how to perform the task?
For each round we will hand out a page of puzzles *[show the page for Round 1].* This page contains 12 puzzles – 6 on each side. The puzzles are numbered from one to twelve. When you solve a puzzle, circle the letter that you pass. If you are not able to do a puzzle, you can proceed to another puzzle. During the activity you cannot talk to each other. If you talk to each other, then you will not get any reward in the activity.

4. [Practice round]

We will start with a practice round.

[Hand out the practice round]
You will now have 5 minutes to solve the puzzles. I will tell you when to start. When the time is up, you have to put down your pens and not work anymore and hand the paper up over your head. Are you ready? *[When ready:]* Okay, start.
[When time is up:] Okay, everyone please stop now. We will collect the page of puzzles now.

5. [Payout schemes]

The way you are paid for this task will change each round. So pay close attention to these rules during each round and be sure you understand them, because they will affect how much money you can earn in that round. For each round, I will first explain the rules, and then I will ask you to begin. Please do not begin until I tell you to. We will soon begin round one.

6. [Round One: Piece rate]

[Experimenter demonstrates in the pictures with payoffs]
Before we begin, I will explain how you will be paid for the tasks in this round, if this round is selected. You get 150 USh for each puzzle you solve correctly. For example, if you complete one puzzle you receive 150 USh, if you complete two puzzles you receive 300 USh, if you complete three puzzles you receive 450 USh, if you complete four puzzles you receive 600 USh, and so on for as many puzzles as you complete.
[Walk them through the control questions on the answer sheet]

1) You solve 3 puzzles correctly. How much money do you get if Round 1 is selected for payment?.....
2) You solve 6 puzzles correctly. How much money do you get if Round 1 is selected for payment?.....

Once we begin, you cannot ask any questions. This is very important. Do you have any questions before we begin?
[Hand out the puzzles for the round 1]
You will now have 2 minutes to solve the puzzles. I will tell you when to start. When the time is up, you have to put down your pens and not work anymore. Are you ready? *[When ready:]* Okay, start.
[When time is up:] Okay, everyone please stop now. We will collect the page of puzzles now.

7. [Round Two: Competition]

Now we will move to the second round. For this round, the task is exactly the same; you will solve puzzles. However, the way you are paid is now different. Now I will tell you how you will be paid if this round is selected.

[Experimenter demonstrates in the pictures with payoffs]

In this round, you will be competing with another kid. Every one of you will be matched with either a girl or a boy from your class, who will complete the same tasks as you. We will not tell you who this kid is, and this kid will never learn about you. We will randomly select the kid after the end of this activity.

You will compete against this kid in solving puzzles in this round. If you solve fewer puzzles than this kid, you will lose the competition. If you and this kid complete the same number of successful puzzles, it's a tie. If you solve more puzzles than this kid, you will win the competition.

For example, if you solve 3 puzzles successfully and this kid solves 2 puzzles successfully, you win the competition and the other kid loses. If you solve 3 puzzles and the other kid solves 4 puzzles, you lose the competition and the other kid wins.

If you win, you will be paid three times more than in round 1. You will get 450 USh for every puzzle you solve correctly, instead of 150 USh in the first round. That is, for one correctly solved puzzle, you will get 450 USh. For 2 correctly solved puzzles, you will get 900 USh. For 3 correctly solved puzzles, you will get 1350 USh and so on. But you will only receive this if you win the competition. If you lose, you get zero. If it is a tie, you will get 150 USh for each correct puzzle.

You will not know if you won or lost in this competition until the end of all activities, when you receive your earnings.

[Go through some more examples if they do not understand]

[Walk them through the control questions on the answer sheet]

1) You solve 3 puzzles correctly and the other kid solves 2 puzzles correctly. Who wins? You or the other kid?..... How much money do you get if round 2 is selected for payment? .....
2) You solve 1 puzzle correctly and the other kid solves 2 puzzles correctly. Who wins? You or the other kid?..... How much money do you get if round 2 is selected for payment?.....

Please do not talk during the task or after you have finished. This is very important. Once we begin, you cannot ask any questions. Do you have any questions before we begin?

You will now have 2 minutes to solve the puzzles. I will tell you when to start. When the time is up, you have to put down your pens and not work anymore. Are you ready?

[When ready:] Okay, start.

[When time is up:] Okay, everyone please stop now. We will collect the page of puzzles now.

8. [Round Three: Choice of Payment Scheme, Before Doing a Task.]

Now we will move to the third round. I will tell you how you will be paid if this round is selected. The task in this round is exactly the same, but now you can choose which way you want to be paid. Either you can be paid as in the first round, or similarly as in the second round.
If you choose to be paid as in round 1, the piece rate, you receive 150 USh per correctly solved puzzle.
If you choose to be paid as in round 2, the competition, the way you are paid in this round will be calculated similarly as in round two. The only difference is that the number of puzzles you solve in this round is compared to the number of puzzles the other kid solved in round 2, the one we just finished, and not for this round. If you solve more puzzles than the kid did for round 2, you win. If you win, you will receive 450 USh per correctly solved puzzle. If it is a tie, you will receive 150 USh. If you lose, you receive zero.
Notice that this round is a little different than the previous round because nothing you do in this round can affect the earnings of other kids, and nothing that other kids do in this round can affect your earnings from this round.
If you choose the Round 2 payment, the competition, you will not know if you won or lost until the end of today's activity, when you receive your earnings. Do you have any questions? If you have any questions, please ask me now.
Take the answer sheet you have on your desk.
Do you want to be paid as in round 1 and receive 150 USh per correct puzzle? Or do you want to be paid as in round 2, the competition? If you choose the competition, you receive 450 USh per correctly solved puzzle if you win, 150 USh if it is a tie and 0 if you lose.
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision now. Tick the option you want to choose in the answer sheet. Do not talk as you are making your decision.
We will now collect the answer sheets.
You will now have 2 minutes to solve the puzzles. I will tell you when to start. When the time is up, you have to put down your pens and not work anymore. Are you ready?
[When ready:] Okay, start.
[When time is up:] Okay, everyone please stop now. We will collect the page of puzzles now.

9. [Belief-Assessment Questions:]

I will now ask you how you think you performed in the tasks in the round 1 and round 2, compared to the other kid.
Take the answer sheet you have on your desk.
I will now ask you how you think you performed in round 2, the competition.
Do you think you solved more puzzles in round 2 than the other kid? Or, do you think you solved less puzzles than the other kid? Or do you think you did the same as the other kid did?
Please tick the answer you want in the answer sheet.

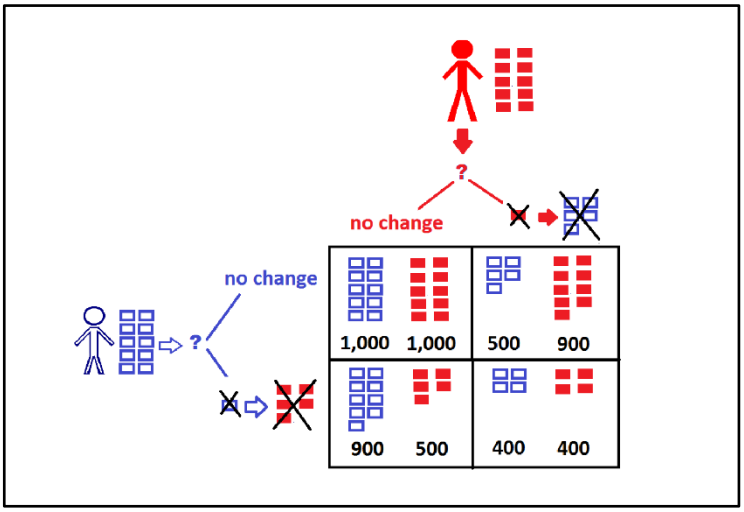
10. [End of the activity]

Now everybody is finished. We will now choose which of the three rounds you will be paid for, by drawing a card. Is there a volunteer who would like to draw one card from the bag?
[Experimenter waits and picks one kid]
OK so as you can see, the selected card is [1-3] and this means you will be paid as in the round [1-3]. You will learn how much money you get only after the end of all the activities.

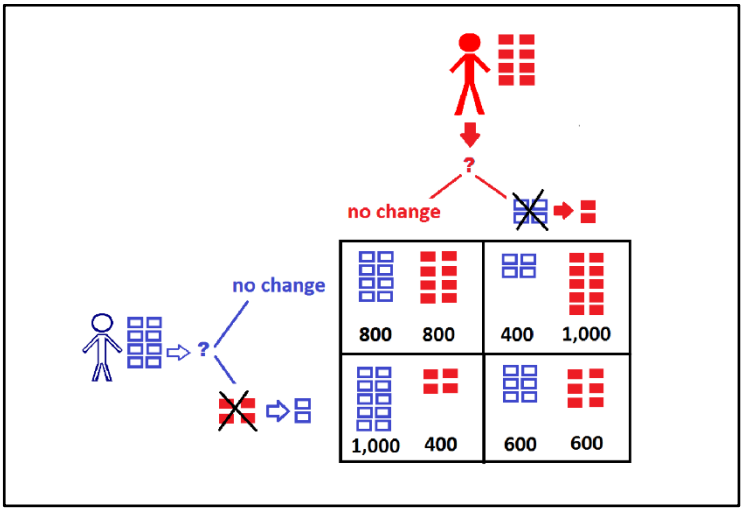
2.4 After all activities

Thank you very much for your participation today. You will be called one by one to receive your payments soon. Please show your colored card and then you will get your money.

2.5 Visual aids

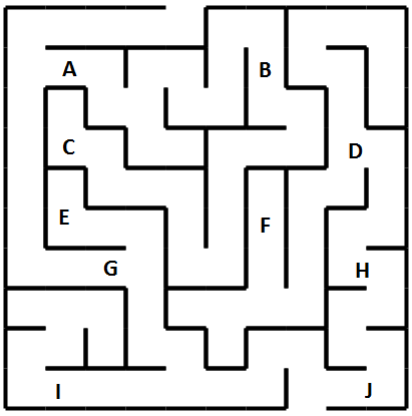


Joy of Destruction game, Individual condition

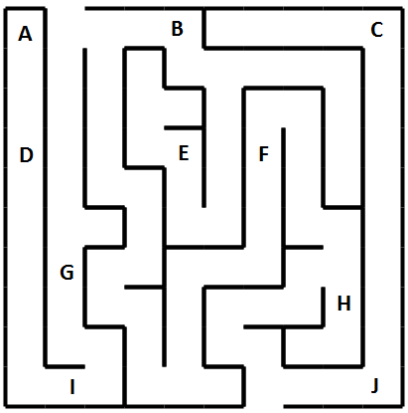


Prisoner's Dilemma game, Individual condition

1



2



Examples of Puzzles

3. *GroupContext_1* and *Group* conditions

[outside or in a separate room]

[Answer sheets are distributed and collected by assistants between the decisions, subjects always have only one answer sheet to work with.]

3.1 Introduction

[Researcher goes with the children outside/to another room. There groups should be formed. Room/place should be prepared, mats on the floor and the box with the letter and answer sheets in one corner]
Now please look at your card. There are numbers and a letter. Look at the letter that is on your card. Now look – there are mats. Please, find the box with the same letter as you have on your card and sit on that mat. There are two more kids with the same letter on the card, so you will be three on one mat. All three kids sitting on one mat form one group. Is it clear? *[When no more questions]* OK, now go and find your mat and sit on it.
[When all children are seated on the mats]
The mat has four corners. Each of you sit in one of the empty corners.

3.2 Joy of Destruction game (JDG)

Welcome to the first/second/third activity you will do today. This activity will take about half an hour. You are in groups of three. In this activity I will ask you to make a few decisions. If you listen carefully to the instructions, you can earn some money. You will be paid at the end of all the activities. You will be paid for only one of the decisions you will make in this activity. I won't tell you now for which one, so you have to be careful and pay attention to every decision you make.
Everybody in the group will be paid the same. Therefore when I speak about how much a group gets, it means how much each one of you gets. So, for example, if you group gets 100 USh, it means each one of you in the group gets 100 USh. First I will explain the activity, then I will ask you to make one decision as an individual, and then you will work in a group. You will tick your decisions in the answer sheets. There are two answer sheets - one for your own personal decision and one for the decisions that you make as a group.

1. [Procedure]

In this activity your group is randomly matched with another group of three kids from your class. This group will make the same decision as you. *[If done as 2nd or 3rd: "This group is most probably a different one than in the previous activity."]* We will not tell you which group it is, and this group will never learn about you. *[If they ask, tell them "We will randomly select the group only after the end of the activity."]*
I will now show in these pictures what your task is. You also have these pictures on your mat. In these pictures, I'll use the red figures to represent your group [*point to the red figures in the picture]*, and the blue figures to represent the other group with whom you are matched [*point to the blue figures in the picture]*.

Both your group and the other group receive 1000 USh, which I show with these rectangles *[point to rectangles next to the red and blue figure in the picture]*. Your group *[point to the red figures in the picture*] then has to decide between two options. Your group can either reduce the other group's money, or you can leave the other group's money unchanged *[show this option in the picture – red figures]*. Reducing the other group's money will cost your group 100 USh [*show this in the picture – red figures rectangle]*. By paying 100 USh, you reduce the other group's income by 500 USh [*point to the blue figure in the picture*]. The other group at the same time makes the same decision. They can choose between reducing your group's money by 500 USh and leaving your group's money unchanged *[show these options in the picture-blue figures*]. The other group will have to pay 100 USh if they choose to reduce your group's money.
The possible situations then are *[turn to picture]*:
- If both your group and the other group choose to leave the money unchanged *[show the chosen options in the picture as you speak]*, both groups will earn 1000USh *[show the payoffs*].
- If both your group and the other group choose to reduce each other's money *[show the chosen options in the picture as you speak]*, both groups will earn 400 USh *[show the payoffs].* This is because at the beginning your group has 1000 USh, then your group pays 100 USh to reduce the other group's money, and the other group decides to reduce your group's money by 500 USh.
- If you choose to leave the money of the other group unchanged, and they decide to reduce your group's money *[show the chosen options in the picture]*, your group will earn 500USh and the other group will earn 900 USh[*show the payoffs*].
- If you choose to reduce the other group's money *[show the chosen options in the picture as you speak]*, and they decide to leave the money unchanged, your group will earn 900USh and the other group will earn 500 USh *[show the payoffs*].

2. [Control questions]

Please, take your personal answer sheet from the box and sit back in the corners of the mat. Write the number and the letter of your card in the top-left corner.
First I will ask some questions to make sure it is clear.

1) If your group chooses to leave the money unchanged and the other group chooses to leave the money unchanged, how much will your group get? And how much will the other group get?
2) If your group chooses to leave the money unchanged and the other group chooses to reduce your money, how much will your group get? And how much will the other group get?
3) If your group chooses to reduce the other kid's money and the other group chooses to leave the money unchanged, how much will your group get? And how much will the other group get?
4) If your group chooses to reduce the other group's money and the other group chooses to reduce your money, how much will your group get? And how much will the other group get?

3. [Decision 1 - Unconditional Decision]

a. *GroupContext_1* decisions

Now I would like to know what you would do if you were to decide on behalf of the group. Now only you decide what to do.
Your group now has 1000 USh. Do you want to pay 100 USh and reduce the other group's money by 500 USh? *[Illustrate it one more time in the picture].* Or, do you want to leave the other group's money unchanged?
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision now. Tick the option you want to choose in the answer sheet.

b. *Group* decision

Now we will collect your personal answer sheets. Then come to the group corner of your mat and decide as a group. The situation is the same.
Take the group answer sheet. Write the letter of your group in the top-left corner.
Your group now has 1000 USh. Do you want to pay 100 USh to reduce the other group's money by 500 USh? *[Illustrate it one more time in the picture].* Or, do you want to leave the other group's money unchanged? The other group is now also making the same decision.
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision. Tick the option you want to choose in the group answer sheet.
When you are done, raise your hand and wait until everybody is finished.
[After two minutes: check whether everyone has finished. If they need more time: "you have two more minutes"]

4. [Decision 2 – Beliefs - Group]

I will now ask you to guess what the other group did. Do you believe that the other group decided to reduce your group's money by 500 USh for paying 100 USh? Or do you believe the group left your group's money unchanged?
Please think carefully about your guess. You have 4 minutes to talk about it in your group and agree on a group guess. Tick the option you want to choose in the group answer sheet. When you are done, raise your hand and wait until everybody is finished.
[After two minutes: check whether everyone has finished. If they need more time: "you have two more minutes"]

5. [Decisions 3 and 4 - Conditional Decisions - Group]

I will now ask you to imagine two situations in this activity and answer, what would you do in each of them. The setup is exactly the same as in the previous part but now imagine you know what the other group did.

[First situation:]

First situation: The other group was deciding between paying 100 USh for reducing your money by 500 USh and leaving the money unchanged *[show the options on picture]*. Imagine you knew that the other group chose NOT to reduce your money *[point to the bottom part of picture]*. What would you do then?

Would you pay 100 USh to reduce the other group's money by 500 USh? If you choose this, your group will earn 900 USh and the other group will earn 500 USh. Or, would you leave the other group's money unchanged? If you choose this, your group will earn 1000 USh and the other group will earn 1000 USh. *[Show the options on picture]*.

Take the group answer sheet.

Your group has 1000 USh. Imagine that the other group decided not to reduce your group's money.

Do you want to pay 100 USh to reduce the other group's money by 500 USh? Or, would you leave the other group's money unchanged? *[Show the options on picture]*.

Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision. Tick the option you want to choose in the group answer sheet. When you are done, please raise your hand.

[After two minutes: check whether everyone has finished. If they need more time: "you have two more minutes"]

[Second situation:]

Second situation: Imagine now you knew that the other group chose to reduce your money. *[Point to the bottom part of picture*] What would you do then? Would you pay 100 USh to reduce the other group's money by 500 USh? If you choose this, your group will get 400 USh and the other group will get 400 USh. Or, would you leave the other group's money unchanged? If you choose this, your group will get 500 USh and the other group will get 900 USh. *[Show the options in the picture]*.

Take the group answer sheet.

Your group has 1000 USh. Imagine that the other group decided to pay 100 USh and reduced your group's money by 500 USh.

Do you want to pay 100 USh to reduce the other group's money by 500 USh? Or, would you leave the group's money unchanged? *[Illustrate it one more time in the picture]*.

Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision. Tick the option you want to choose in the group answer sheet. When you are done, please raise your hand.

[After two minutes: check whether everyone has finished. If they need more time: "you have two more minutes"]

6. [End of activity]

When you are done with your decisions, please go back into your corners and wait until everybody is finished. Then we will collect your answer sheets, randomly match you with one of the other groups and pair your decisions. You will learn the final amount of money only after the end of all activities.

3.3 Prisoner's Dilemma game (PDG)

Welcome to the first/second/third activity you will do today. This activity will take about half an hour. You are in groups of three. If you listen carefully to the instructions, you can earn some money. You will be paid at the end of all the activities. You will be paid for only one of the decisions of this activity. I won't tell you now for which one, so you have to be careful and pay attention to every decision you make.
Everybody in the group will be paid the same. Therefore when I speak about how much a group gets, it means how much each one of you gets. So, for example, if your group gets 100 USh, it means each one of you in the group gets 100 USh.
First I will explain the activity, then I will ask you to make one decision as an individual, and then you will work in your group. You will tick your decisions in the answer sheets. There are two answer sheets - one for your own personal decision and one for the decisions that you make as a group.

1. [Procedure]

In this activity your group is randomly matched with another group of three kids from your class. This group will make the same decision as you. *[If done as 2nd or 3rd: "This group is most probably a different one than in the previous activity."]* We will not tell you which group it is, and this group will never learn about you. *[If they ask, tell them "We will randomly select the group only after the end of the activity."]*
I will now show in these pictures what your task is. You also have these pictures on your mat. In these pictures I'll use the red figures to represent your group *[point to the red figures in the picture]*, and the blue figures to represent the other group with whom you are matched [*point to the blue figures in the picture]*.
Both your group and the other group receive 800 USh, which I show with these rectangles *[point to the rectangles next to the red and blue figures in the picture].* Your group *[point to the red figures in the picture*] then has to decide between two options. Your group can either take 400 USh from the other group to get 100 USh for your group *[show this option in the picture – red figure]*, or you can leave the other group's money unchanged *[show this option in the picture – red figure]*. The other group at the same time makes the same decision [*point to the blue figure in the picture*]. They can choose between taking 400 USh from your group *[show this option in the picture – blue figure]* and leaving your group's money unchanged *[show this option in the picture – blue figure].* If they take your 400 USh, they get 200 USh.

The possible situations then are *[turn to picture]:*
- If both your group and the other group choose to leave the money unchanged *[show the chosen options in the picture as you speak],* both groups will earn 800 USh *[show the payoffs*].
- If both your group and the other group choose to take money from the other *[show the chosen options in the picture as you speak]*, both groups will earn 600 USh *[show the payoffs*].This is because your group has 800 USh, gets 200 USh by taking 400 USh from the other group, but the other group also takes 400 USh from your group.
- If you choose to leave the money of the other group unchanged, and they decide to take 400 USh from your group *[show the chosen options in the picture]*, your group will earn 400 USh and the other group will earn 1000 USh[*show the payoffs*].
- If you choose to take 400 USh from the other group, and they decide to leave the money of your group unchanged *[show the chosen options on picture]*, your group will earn 1000 USh and the other group will earn 400 USh *[show the payoffs]*.

2. [Control questions]

First I will ask some questions to make sure it is clear. Please write your answers in the answer sheet.

1) If your group chooses to leave the money unchanged and the other group chooses to leave the money unchanged, how much will your group get? And how much will the other group get?
2) If your group chooses to leave the money unchanged and the other group chooses to take 400 USh from you, how much will your group get? And how much will the other group get?
3) If your group chooses to take 400 USh from the other group and the other group chooses to leave the money unchanged, how much will your group get? And how much will the other group get?
4) If your group chooses to take 400 USh from the other group and the other group chooses to take 400 USh from you, how much will your group get? And how much will the other group get?

3. [Decision 1 - Unconditional Decision]

a. *GroupContext_1* decisions
Please, take your personal answer sheet from the box and sit back in the corners of the mat. Write the number and the letter of your card in the top-left corner.
First I would like to know what you would do if you were to decide on behalf of the group. Now only you decide what to do.
Your group now has 800 USh. Do you want to take 400 USh from the other group to get 200 USh for your group? *[Illustrate it one more time in the picture].*Or, do you want to leave the other group's money unchanged? The other group is now also making the same decision.
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision now. Tick the option you want to choose in the answer sheet.
b. *Group* decision
Now we will collect your personal answer sheets. Then come to the group corner of your mat and decide as a group. The situation is the same.
Take the group answer sheet. Write the letter of your group in the top-left corner.

Your group now has 800 USh. Do you want to take 400 USh from the other group to get 200 USh for your group? *[Illustrate it one more time in the picture].*Or, do you want to leave the other group's money unchanged? The other group is now also making the same decision.
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision. Tick the option you want to choose in the group answer sheet.
When you are done, raise your hand and wait until everybody is finished.
[After two minutes: check whether everyone has finished. If they need more time: "You have two more minutes"]

4. [Decision 2 – Beliefs - Group]

I will now ask you to guess what the other group did. Do you believe that the other group decided to take your group's money by 400 USh to get 200 USh for themselves? Or do you believe the group left your group's money unchanged*?*
Please think carefully about your guess. You have 4 minutes to talk about it in your group and agree on a group guess. Tick the option you want to choose in the group answer sheet. When you are done, raise your hand and wait until everybody is finished.
[After two minutes: check whether everyone has finished. If they need more time: "you have two more minutes"]

5. [Decision 3 and 4 - Conditional Decisions - Group]

I will now ask you to imagine two situations in this activity and answer what would you do in each of them. The setup is exactly the same as in the previous part, but now imagine you know what the other group did.
[First situation:]
First situation: The other group was deciding between taking 400 USh from your group to get 200 USh, and leaving the money unchanged *[show the options on picture].* Imagine you knew that the other group chose NOT to take any of your money to increase their money *[point to the bottom part of picture].* What would you do then?
Would you take 400 USh from the other group's money to get 200 USh for your group? If you choose this, then your group will earn 1000 USh and the other group will earn 400 USh. Or, would you leave the other group's money unchanged? If you choose this, then you will earn 800 USh and the other group will earn 800 USh. *[Show the options in the picture].*
Take the group answer sheet.
Your group has 800 USh. Imagine that the other group decided NOT to take any money from you.
Do you want to take 400 USh from the other group to get 200 USh for your group? *[Illustrate it one more time in the picture].*Or, would you leave the other group's money unchanged?
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision. Tick the option you want to choose in the group answer sheet. When you are done, please raise your hand.
[After two minutes: check whether everyone has finished. If they need more time: "you have two more minutes"]
[Second situation:]
Second situation: Imagine now you knew that the other group chose to take 400 USh from you to get 200 USh for them [*point to the bottom part of picture*]. What would you do then? Would you take 400 USh from the other group's money to get 200 USh for your group? If you choose this,

then your group will earn 600 USh and the other group will earn 600 USh. Or, would you leave the group's money unchanged? If you choose this, your group will earn 400 USh and the other group will earn 1000 USh *[show the options in the picture].*
Take the group answer sheet.
Your group has 800 USh. Imagine that the other group decided to take 400 USh from your group. Do you want to take 400 USh from the other group to get 200 USh for your group? Or, would you leave the group's money unchanged? *[Illustrate it one more time in the picture].*
Please think about your decision carefully. You have 4 minutes to talk about it in your group and agree on a group decision. Tick the option you want to choose in the group answer sheet. When you are done, please raise your hand.
[After two minutes: check whether everyone has finished. If they need more time: "you have two more minutes"]

6. [End of activity]

When you are done with your decisions, please go back to your corners and wait until everybody is finished. Then we will collect your answer sheets, randomly match you with one of the other groups and pair your decisions. You will learn the final amount of money only after the end of all activities.

3.4 Competitiveness game

1. [Introduction]

Welcome to the first/second/third activity you will do today. It has three rounds and will take about an hour. In this activity I will ask you to make a few decisions and solve some puzzles. If you listen carefully, you can earn some money. So pay close attention to the instructions, and ask questions if you do not understand because it may affect how much money you earn.
You will be paid at the end of all the activities. Everybody in the group will be paid the same. Therefore when I speak about how much a group gets, it means how much each one of you gets. So, for example, if your group gets 100 USh, it means each one of you in the group gets 100 USh.
First I will explain the activity, then I will ask you to make one decision as an individual, and then you will work in a group. You will tick your decisions in the answer sheets. There are two answer sheets - one for your own personal decision and one for the decisions that you make as a group.

2. [Selection of payment for competitiveness - drawing cards]

You will be paid only for one of the three rounds. At the end of this activity, we will randomly select one of them. There are three cards *[experimenter shows them to all kids]* and each has a number 1 through 3. This number means the round which you will be paid for. These are the three cards. This one is for the first round, this one is for the second round and this one is for the third round *[Experimenter places cards in bag]*. One of you will pick a card just as this man is going to show you right now. *[Experimenter picks one card from the bag without seeing what he picks]*. You will be paid based on how well you did in the picked round. This one card will

choose the round for all of you. Before each round, I will explain to you exactly how you can earn money in that round.

3. [Puzzle + example]

In each round you will solve puzzles. Now I will show you how to solve a puzzle.
This is the puzzle. Your task is to find the **shortest** way from start to the end. On the way there you have to pass a letter. When you make it to the end of the maze, you will also know the letter that you passed on the way. The solution of the puzzle is the letter that you had to pass on the shortest way to the other end. You should circle that letter.
Now I will show you how to solve the puzzle *[Experimenter illustrates each of her statements by drawing on the poster with the maze, which she solves].*You see that here the solution is the letter D. Every puzzle has only one solution, so please write circle the one letter that you think is the correct one.
Please, take your personal answer sheet from the box and sit back in the corners of the mat. Write the number and the letter of your card in the top-left corner.
You have one puzzle on your personal answer sheet. Now I will ask you to solve it as practice. I will give you two minutes to do this. Try to find the correct path and circle the letter that you cross on the way. If you don't understand something, raise your hand, and I will come to you.
[*Experimenter allows two minutes for the children to work on the practice maze.]*
Does anyone have any questions about how to perform the task?
For each round we will hand out a booklet of puzzles *[show the booklet for Round 1]* and an answer sheet. This booklet contains 12 puzzles. The puzzles are numbered from one to twelve. When you solve a puzzle, circle the letter that you pass. If you are not able to do a puzzle, you can proceed to the puzzle on the next page. During the activity you cannot talk to each other. If you talk to each other, then you will not get any reward in the activity.
You will solve the puzzles on your own, but then we will add the scores of all three kids in a group together and this will be your group's score.

4. [Practice round:]

We will start with a practice round.
[Hand out the practice round]
You will now have 5 minutes to solve the puzzles. I will tell you when to start. When the time is up, you have to put down your pens and not work anymore and hand the paper up over your head. Are you ready? *[When ready:]* Okay, start.
[When time is up:] Okay, everyone please stop now. We will collect the page of puzzles now.

5. [Payout schemes]

The way you are paid for this task will change each round. So, pay close attention to these rules during each round and be sure you understand them, because they will affect how much money you can earn in that round. For each round, I will first explain the rules, and then I will ask you to begin. Please do not begin until I tell you to. We will soon begin round one.

6. [Round One: Piece rate]

[Experimenter demonstrates in the pictures with payoffs]

Before we begin, I will explain how you will be paid for the tasks in this round. You get 50 USh for each puzzle your group solves correctly. For example, if your group solves one puzzle you receive 50 USh, if your group completes two puzzles you receive 100 USh, if your group completes three puzzles you receive 150 USh, if your group completes four puzzles you receive 200 USh, and so on for as many puzzles as you complete.

1) *[Walk them through the control questions on the answer sheet]*1. You solve 3 puzzles, one of your group-mates solves 2 puzzles and the second group-mate solves 2 puzzles correctly. How many puzzles does your group solve? .....
   How much money do you get if round 1 is selected for payment? .....

Once we begin you cannot ask any questions. This is very important. Do you have any questions before we begin?

[Hand out the puzzles for the round 1]

You will now have 2 minutes to solve the puzzles. Work on your own. I will tell you when to start. Are the facilitators ready? *[When ready:]* Okay, start.

[When time is up:] Okay, everyone please stop now.

7. [Round Two: Competition]

Now we will move to the second round. For this round, the task is exactly the same; you will solve puzzles. However, the way you are paid is now different.

[Experimenter demonstrates in the pictures with payoffs]

In this round, your group will be competing with another group. Every group will be matched with another group from your class, which will complete the same tasks as you. We will not tell you which one this group is and this group will never learn about you. We will randomly select the group after the end of this activity. If your group solves fewer puzzles than the other group, your group will lose the competition. If your group and the other group complete the same number of successful puzzles, it's a tie. If your group solves more puzzles than the other group, you will win the competition.

For example, if your group solves 3 puzzles successfully and the other group solves 2 puzzles successfully, your group wins the competition and the other group loses. If your group solves 3 puzzles successfully and the other group solves 4 puzzles successfully, your group loses the competition and the other group wins.

If your group wins, you will be paid 150 USh for every puzzle your group solved correctly, instead of 50 USh in the first round. That is, for one correctly solved puzzle you will get 150 USh. For 2 correctly solved puzzles you will get 300 USh. For 3 correctly solved puzzles you will get 450 USh and so on. But you will only receive this if your group wins the competition. If your group loses, you get zero. If it is a tie you will get 50 USh for each correct puzzle.

You will not know if your group won or lost in this competition until the end of all activities, when you receive your earnings.

[Go through some more examples if they do not understand]

[Walk them through the control questions on the answer sheet]

1) Your group solves 6 puzzles and the other group solves 2 puzzles. Who wins? Your group or the other group? ..... How much money do you get if round 2 is selected for payment? .....
2) 2. You solve 1 puzzle correctly and your group-mates solve no puzzles correctly.The other group solves 2 puzzles correctly. Who wins? Your group or the other

group?..... How much money do you get if round 2 is selected for payment? .....

Please do not talk during the task or after you have finished. This is very important. If you have any questions, please raise your hand, and ask me now. Once we begin, you cannot ask any questions. Do you have any questions before we begin?
You will now have 2 minutes to solve the puzzles. I will tell you when to start. Are the assistants ready? *[When ready:]* Okay, start.
[When time is up:] Okay, everyone please stop now.

8. [Round Three: Choice of Payment Scheme, Before Doing Task]

Now we will move to the third round. The task in this round is exactly the same, but now you can choose which way you want to be paid. Either you can be paid as in the first round, or similarly as in the second round.
If you choose to be paid as in round 1, the piece rate, you receive 50 USh per correct puzzle.
If you choose to be paid as in round 2, the competition, the way you are paid in this round will be calculated similarly as in round two. The only difference is that the number of puzzles your group solves in this round is compared to the number of puzzles the other group solved in round 2, the one we just finished, and not for this round. If you solve more puzzles than the group did in round 2, you win. If you win, you will receive 150 USh per correctly solved puzzle. If it is a tie, you will receive 50 USh. If you lose, you receive zero.
Notice that this round is a little different than the previous round because nothing you do in this round can affect the earnings of other groups, and nothing that other groups do in this round can affect your earnings from this round.
If you choose the round 2 payment, the competition, you will not know if you won or lost until the end of today's activity, when you receive your earnings. Do you have any questions? If you have any questions, please ask me now.

a. *GroupContext_1* decisions

First I would like to know what you would do if you were to decide on behalf of the group. Now only you decide what to do.
Please, take your personal answer sheet and sit in the corners of the mat.
Do you want to be paid as round 1 and receive 50 USh per correct puzzle? Or do you want to be paid as in round 2, the competition? If you choose the competition, you receive 150 USh per puzzle if you win, 50 USh if it is a tie and 0 if you lose.
Please think about your decision carefully. *[Leave a while for thinking about the decision]*
Please make your decision now. Tick the option you want to choose in the answer sheet. Do not talk as you are making your decision.
[answer sheets are collected by assistants]

b. *Group* decision

Then move to the group corner of your mat and decide as a group. The situation is the same, but now you have to decide as a group. You will be paid according to the group decision. Take the group answer sheet and write the letter of your group in the top-left corner.
Do you want to be paid as round 1 and receive 50 USh per correct puzzle? Or do you want to be paid as in round 2, the competition? If you choose the competition, you receive 150 USh per correctly solved puzzle if you win, 50 USh if it is a tie and 0 if you lose.

Please think about your decision carefully. Just choose the option that you like better. You have 4 minutes to talk about it in your group and agree on a group decision. Tick the option you want to choose in the group answer sheet. When you are done, raise your hand and then please return to your own corners. Leave the group answer sheet in the group corner.
[After two minutes: check whether everyone has finished. If they need more time: "You have two more minutes"]
You will now have 2 minutes to solve the puzzles. I will tell you when to start. Are the facilitators ready? *[When ready:]* Okay, start.
[When time is up:] Okay, everyone please stop now. We will now collect the personal answer sheet.

9. [Belief-Assessment Questions - Group]

I will now ask you how you think your group performed in the tasks in the round 1 and round 2, compared to the other group.
Take the group answer sheet.
I will now ask you how you think you performed in round 2, the competition.
Do you think your group solved more puzzles than the other group in round 2, the competition? Or, do you think your group solved less puzzles than the other group? Or, do you think your group did the same as the other group?
Please tick the answer you want in the answer sheet. *[Leave a while for the decision]*

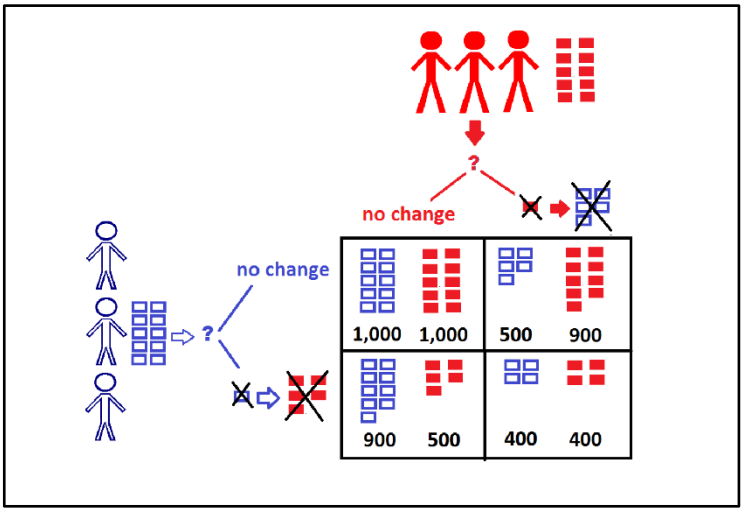
10. [End of the activity]

Now everybody is finished. We will now collect the group answer sheets. We will now choose which of the three rounds you will be paid for by drawing a card. Is there a volunteer who would like to draw one card from the bag?
[Experimenter waits and picks one kid]
OK so as you can see the selected card is [1-3] and this means you will be paid as in the round [1-3]. You will learn how much money you get only after we have completed all the activities.

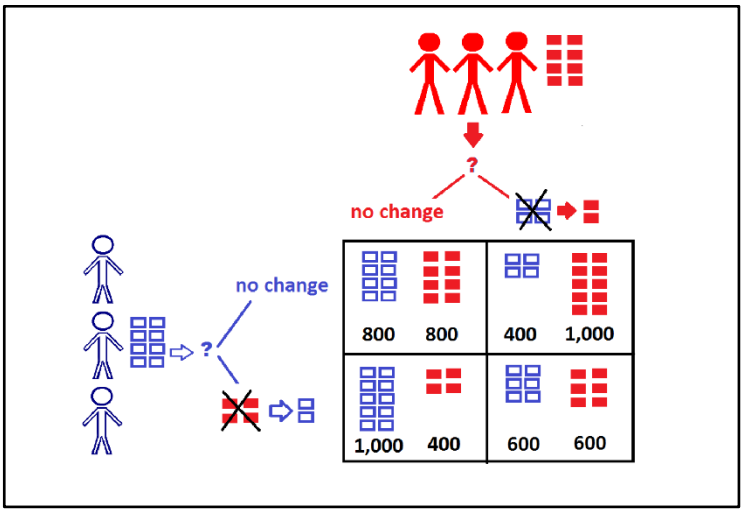
3.5 After all activities

Thank you very much for your participation today. You will be called one by one to receive your payments soon. Please show your colored card and then you will get your money.

3.6 Visual aids

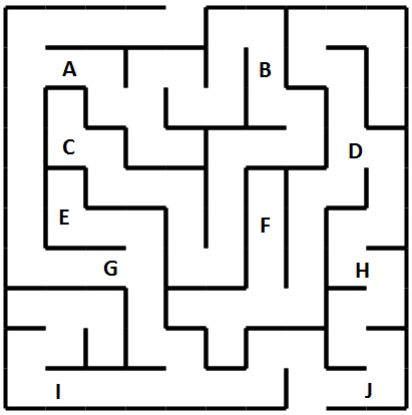


Joy of Destruction game, Group condition

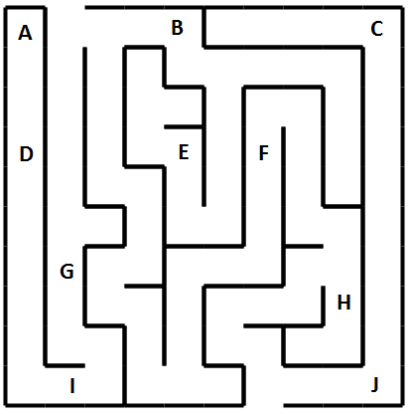


Prisoner's Dilemma game, Group condition

1



2



Examples of Puzzles

VI. EXPERIMENTAL INSTRUCTIONS
SUPPLEMENTARY EXPERIMENT: ADULTS (AGE 50-65), SLOVAKIA [ONLINE]

English translation (instructions were given in Slovak language)

Instructions

In this additional task, we will ask you to make one decision. You will be able to receive an additional financial reward beyond the standard reward for completing the questionnaire and any reward from the previous questions. Another, randomly selected person who does not participate in this survey, but in another survey, will also be able to receive an additional financial reward. We'll call this person "Person B" for simplicity. Person B is an adult, lives in Slovakia and can be a man or a woman.

After the survey is completed, we will randomly select 30 respondents from this survey and their decisions will determine the amount of their reward for this task and the amount of reward for Person B. It is therefore important that you focus on your decision because it can determine the amount of both rewards. All the amounts stated in the questionnaire are real - if, for example, it is written that you will receive €1 for a decision and this decision will be drawn, you will receive this amount together with other rewards for this survey.

VERSION A

Task

To begin with, you get 2 € and Person B also gets 2 €. Your task is to decide between two options:

- Reduce Person B's reward by 1 € and pay 20 cents from your reward.
  In this case, ***you will receive 1.80*** **€*****, and Person B will receive 1*** **€.**
- Leave the money as it is.
  In this case, ***you will receive 2*** **€*****, and Person B will receive 2*** **€.**

Which of the options do you want to choose?
1. Reduce Person B's reward by 1 € and pay 20 cents from your reward.
2. Leave the money as it is.

VERSION B

Task
To begin with, you get 2 € and Person B also gets 2 €. Your task is to decide between three options:

- Reduce Person B's reward by 1 € and pay 20 cents from your reward.

In this case, ***you will receive €1.80*** **€*****, and Person B will receive 1*** **€.**

• Leave the money as it is.

In this case, ***you will receive 2*** **€*****, and Person B will receive 2*** **€.**

• Add 1 € to Person B's reward and pay 20 cents from your reward.

In this case, ***you will receive 1.8*** **€*****, and Person B will receive 3*** **€.**

Which of the options do you want to choose?

1. Reduce Person B's reward by 1 € and pay 20 cents from your reward.
2. Leave the money as it is.
3. Add 1 € to Person B's reward and pay 20 cents from your reward.