C Questionnaire and Instructions of the Experiments

We now present the instructions and questionnaire used in the Short treatment version of the lab experiment (the Long treatment is analogous) and the real effort experiment.

INSTRUCTIONS

OVERVIEW

This is an experiment in the economics of decision-making. The instructions are simple, and if you follow them carefully you may earn a considerable amount of money.

There are <u>three</u> parts in this experiment. In each part, you will be asked to answer some questions in a questionnaire that we will distribute. Please answer <u>all</u> the questions. We will hand out specific instructions for each part before it begins, and we will read these instructions aloud and answer any question you may have. After you have filled out the questionnaire of a given part, please put it to the side to indicate that you are done.

In the first page of all questionnaires you will be asked to write your `lab id.' This is the identifier given to you by the Wharton Behavioral Lab. Please write this number on all questionnaires: this will be essential to ensure appropriate payment.

After you have answered all the questions in the experiment, we will ask you a brief survey with some additional questions about your experience.

Notice that in this experiment <u>there are no right or wrong answers</u>. We are interested in studying <u>your preferences</u>.

CHANCE

As we shall describe in details in each part of the experiment, some of the options you will be offered during the experiment return a payment that depends on <u>chance</u>. In particular, chance might determine the amount of cash that a given option pays, or the date on which this payment will be made.

For example, you might face an option that returns benefit A with probability 50%, and benefit B with probability 50%.

To determine this, we will use the <u>roll of a die</u>. In particular, after all three parts of the experiment are completed, at the very end of the experiment, one of the participants will be randomly selected to act as the <u>assistant</u>, and his/her task will be exactly to roll a die to determine the benefits returned by a given option.

To illustrate, consider the example above – the option that returns benefit A with probability 50%, and benefit B with probability 50%. Then, the assistant will roll a 6-faced die, and if he/she obtains faces 1-2-3 you will receive benefit A; if instead he/she obtains faces 4-5-6, you will receive benefit B.

Depending on the questions, the probabilities involved could be different – e.g., 5%, 30%, etc. – but the outcome will always be determined by the roll of a die. We may use a 6-faced, 8-faced, 10-faced, or 12-faced dice depending on the question. You will be able to observe this process, and, if you wish, to inspect the dice used by the assistant.

PAYMENTS

Your payoff in the experiment will be determined as follows:

- After you've answered all the questions in all parts of the experiments, we will choose randomly, with equal probability, one question from all the questions you've answered. This will be done by the roll of a die by the assistant, as described above. You will then receive the benefit paid by the option that you have chosen for that question (which may depend on chance).
- Your total earning will consist of the amounts above plus a \$10 participation fee if you complete the experiment. This participation fee will paid to you at the end of the experiment today independently of the benefit received in the rest of the experiment. The benefit paid by the selected option could either be paid today, or be paid in the future, depending on the question.

PAYMENTS IN FUTURE DATES

Some of the options in the experiment involve payments to be made in <u>future</u> dates. For example, you might face an option that pays \$15 in 2 weeks. To receive this payment, you will be allowed to pick up the cash from <u>this</u> lab, at any point during office hours starting from the day specified onwards.

For example, if you receive the option that pays \$15 in 2 weeks, you can come and pick up the cash in this lab at any point during office hours, starting from 2 weeks from today.

You will receive an email to remind you of the approaching date. All possible payment dates will coincide with a day that the school is open.

To guarantee an accurate payment, we will save all the payment information until the date of the payment, but we will keep it **separately** from the rest of the data collected from the experiment, and it will be destroyed once all payments have been made.

You will also be provided with the contact details of Prof. <u>Daniel Gottlieb</u>, who is one of the persons conducting this research, and who will be responsible to ensure that you receive your payment. Please feel free to contact Prof. Gottlieb if any problem arises with your payment.

Instructions for Part I

There are 5 questions in this part. Please answer all of them. In each question you are asked to choose between two options by checkmarking your preferred one. If this question is selected for payment, the chosen option will pay a given amount of money on some date of the future.

The questions may look similar to this:

Question EXAMPLE

Payment: **\$16.** Payment date:

Option A		Option B			В
13 days			75%	chance of	20 days
			25%	chance of	10 days

Both options above will pay \$16, as written above the question. Where they differ is on the date of the future payment.

Option A above will pay in 13 days. This means that if you choose this option, and this question is selected for payment, then you will receive \$16 in 13 days.

Option B instead involves a payment date that will depend on chance: it above pays in 10 days with probability 25%, and in 20 days with probability 75%. If you choose this option, and this question is selected for payment, then chance will determine the payment date.

Recall that this payment date will be determined by the roll of a die done at the end of the experiment. At that point you will learn the payment date and the amount. This means that even if this date of payment is unknown before you answer, at the end of the experiment you will learn exactly when the payment will be made.

Instructions for Part II

There are 6 questions in this part. Each question is a list of **21 choices**, one in each row. For each decision row you will be asked to choose either Option A, on the left, or Option B, on the right. You make your decision by checking the box next to the option that you want. You may choose Option A for some decision rows and Option B for other rows.

In all questions, the 21 choices are presented as a list, in which Option A (on the left) **remains the same**, while Option B (on the right) **changes in each row**. For example, you might face the following question:

Row	Option A		Option B
1	\$8.00 in 10 days		\$8.00 in 20 days
2	\$8.00 in 10 days		\$8.25 in 20 days
3	\$8.00 in 10 days		\$8.50 in 20 days
4	\$8.00 in 10 days		\$8.75 in 20 days
5	\$8.00 in 10 days		\$9.00 in 20 days
6	\$8.00 in 10 days		\$9.25 in 20 days
7	\$8.00 in 10 days		\$9.50 in 20 days
8	\$8.00 in 10 days		\$9.75 in 20 days
9	\$8.00 in 10 days		\$10.00 in 20 days
10	\$8.00 in 10 days		10.25 in 20 days
11	\$8.00 in 10 days		\$10.50 in 20 days
12	\$8.00 in 10 days		10.75 in 20 days
13	\$8.00 in 10 days		\$11.00 in 20 days
14	\$8.00 in 10 days		\$11.25 in 20 days
15	\$8.00 in 10 days		11.50 in 20 days
16	\$8.00 in 10 days		\$11.75 in 20 days
17	\$8.00 in 10 days		\$12.00 in 20 days
18	\$8.00 in 10 days		\$12.25 in 20 days
19	\$8.00 in 10 days		\$12.50 in 20 days
20	\$8.00 in 10 days		\$12.75 in 20 days
21	\$8.00 in 10 days		\$13.00 in 20 days

As you can see, Option A, on the left is always the same, while Option B, on the right, changes: the amount of money it pays <u>increases</u> as you proceed down the rows. Your task is to choose **in each row** whether you prefer Option A or Option B.

Some of these questions, like the ones above, involve different amounts to be paid at different dates. These dates could be in the future, or could be marked as 'today: in this case, they would be paid at the end of the experiment today.

Other questions involve a fixed amount of money to be paid, but with a payment date that depends on **chance**. Consider for example the following question:

Payment: **\$15.** Payment date:

Row	'ayment date: Option A				Option B	
1	In 28 days			0%	chance of	15 days
1	III 20 days			100%	chance of	45 days
2	In 28 days			5%	chance of	15 days
-	111 20 days		Ш	95%	chance of	45 days
3	In 28 days		<u> </u>	10%	chance of	15 days
	111 20 days	Ш	Ш	90%	chance of	45 days
4	In 28 days			15%	chance of	15 days
	111 20 days			85%	chance of	45 days
5	In 28 days			20%	chance of	15 days
	111 20 days			80%	chance of	45 days
6	In 28 days			25%	chance of	15 days
	111 20 days			75%	chance of	45 days
7	In 28 days			30%	chance of	15 days
•	III 20 days			70%	chance of	45 days
8	In 28 days			35%	chance of	$\frac{45 \text{ days}}{15 \text{ days}}$
6	III 20 days			65%	chance of	45 days
9	In 28 days			$\frac{-00\%}{40\%}$	chance of	$\frac{45 \text{ days}}{15 \text{ days}}$
9	III 20 days			60%	chance of	45 days
10	In 28 days			45%	chance of	15 days
10	III 20 days			$\frac{45\%}{55\%}$	chance of	45 days
11	In 28 days			$\frac{50\%}{50\%}$	chance of	$\frac{45 \text{ days}}{15 \text{ days}}$
	III 20 days			50%	chance of	45 days
12	In 28 days			55%	chance of	15 days
12	III 20 days			45%	chance of	45 days
13	In 28 days			60%	chance of	15 days
10	III 20 days			40%	chance of	45 days
14	In 28 days			65%	chance of	15 days
11	III 20 days			35%	chance of	45 days
15	In 28 days			70%	chance of	15 days
10	III 20 days			30%	chance of	45 days
16	In 28 days			75%	chance of	15 days
10	III 20 days			25%	chance of	45 days
17	In 28 days			80%	chance of	15 days
11	III 20 days			20%	chance of	45 days
18	In 28 days			85%	chance of	15 days
	III 20 days			15%	chance of	45 days
19	In 28 days		_	90%	chance of	15 days
10	m 20 days			10%	chance of	45 days
20	In 28 days			95%	chance of	$\frac{45 \text{ days}}{15 \text{ days}}$
20	III 20 days			5%	chance of	45 days
			1	970	chance of	40 days
21	In 28 days			100%	chance of	15 days

In this question, all options available involve a payment of a fixed amount of money, \$15, as written on top. In the case of Option A, in all rows the payment will be made in 28 days. In the case of Option B the payment date will instead depend on chance: for example, Option B in row 17 involves a payment in 15 days with probability 80

Notice that as we proceed down the rows, Option B changes by <u>increasing the probability</u> that the payment is made on the sooner date.

If one of these questions is selected for payment at the end of the experiment, then one row will then be chosen randomly, with equal probability, using the roll of a die (made by the assistant). You will then receive the Option you have selected for that row. If the Option you have selected depends on chance, as in Options B in the example above, then again this will be resolved using the roll of a die made by the assistant (just like in the rest of the experiment).

Finally, recall that in this experiment <u>there are no right or wrong answers</u>. We are interested in studying **your preferences**.

Instructions for Part III

There are 6 questions in this part. As opposed to the previous parts of the experiment, in this part all questions involve options that, if selected for payment, will be paid out <u>today</u> at the end of the experiment. Like in Part II, each question is a list of **21 choices**, one in each row. Again, for each decision row you will be asked to choose either Option A, on the left, or Option B, on the right. As before, in all questions Option A remains the same, while Option B varies.

Consider for example the following question:

Row	Option A				Option B	
1	\$9	_		0%	chance of	\$15
	L		Ш	100%	chance of	\$4
2	\$9	_		5%	chance of	\$15
	L			95%	chance of	\$4
3	\$9			10%	chance of	\$15
	L			90%	chance of	\$4
4	\$9	7		15%	chance of	\$15
	L		Ш	85%	chance of	\$4
5	\$9		П	20%	chance of	\$15
	L	_	Ш	80%	chance of	\$4
6	\$9			25%	chance of	\$15
	L		Ш	75%	chance of	\$4
7	\$9	7	П	30%	chance of	\$15
				70%	chance of	\$4
8	\$9	7	П	35%	chance of	\$15
				65%	chance of	\$4
9	\$9	7	П	40%	chance of	\$15
				60%	chance of	\$4
10	\$9	7		45%	chance of	\$15
				55%	chance of	\$4
11	\$9			50%	chance of	\$15
	•			50%	chance of	\$4
12	\$9			55%	chance of	\$15
	ФО			45%	chance of	\$4
13	\$9			60%	chance of	\$15
1.4	¢o.			40%	chance of	\$4
14	\$9			65%	chance of	\$15
1 5	ФО.			35%	chance of	\$4
15	\$9			$70\% \\ 30\%$	chance of	\$15 \$4
	\$9			$\frac{30\%}{75\%}$	chance of	\$15
10	Φ9			25%	chance of	\$4
17	\$9			80%	chance of	\$15
11	Ψ9 [20%	chance of	\$4
18	\$9			85%	chance of	\$15
10				15%	chance of	\$4
19	\$9			90%	chance of	\$15
	[10%	chance of	\$4
20	\$9	_		95%	chance of	\$15
_~				5%	chance of	\$4
21	\$9			100%	chance of	\$15
			Ш	0%	chance of	\$4

As you can see, in this question Option A remains the same in all rows, at \$9, while Option B varies: it pays an amount of dollars that depends on **chance**. It pays two different amounts, \$4 and \$15, with varying probabilities. In particular, as we proceed down the rows, **the probability of receiving the higher payment increases**. This means that, as we proceed down the rows, Option B pays the higher amount with a higher and higher probability. In particular, notice that in the **first** row Option B pays **with certainty \$4**, while in the **last** row it pays **with certainty \$15**. Your task is to choose **in each row** whether you prefer Option A or Option B.

Notice that in the example above, Option A does not depend on chance. However, there will be questions in this part in which also Option A depends on chance.

If one of these questions is selected for payment at the end of the experiment, then one row will be selected at random, with equal probability. This will be done again using the roll of a die (made by the assistant). You will then receive the option you have selected for that row. If this option involves chance, this will also be resolved using the roll of a die (made by the assistant). For example, if you choose 80% chance of \$15 and 20% chance of \$4 for row 17, and this question and this row are selected for payment, then with probability 80% you will receive \$15, while with probability 20% you will receive \$4. These payments will be made today at the end of the experiment.

Finally, recall that in this experiment there are no right or wrong answers. We are interested in studying your preferences.

Please indicate your lab id: _____ Please answer each of the following questions by checking the box of the preferred option. If the question is selected for payment, you will get the payment specified above the question, with a payment date based on your choice and, in some cases, on chance. Question 1 Payment: \$20. Payment date:

 ${\bf QUESTIONNAIRE-PART~I}$

Option A		Option B		
2 weeks		75% chance of 1 week	ek	
	Ш	25% chance of 5 week	eks	

Payment: **\$15.** Payment date:

Option A		Option B		
3 weeks		50% chance of 1 week		
		50% chance of 5 weeks		

Question 3

Payment: **\$10.** Payment date:

Option A		Option B		
2 weeks			50% chance of 1 week	
2 weeks	Ш	Ш	50% chance of 3 weeks	

Question 4

Payment: **\$20.** Payment date:

Option A		Option B
50% chance of 2 weeks		75% chance of 2 weeks
50% chance of 3 weeks	Ш	25% chance of 4 weeks

Question 5

Payment: **\$10.** Payment date:

Option A		Option B		
50% chance of 2 weeks				75% chance of 3 weeks
50% chance of 5 weeks			25% chance of 5 weeks	

${\bf QUESTIONNAIRE-PART~II}$

Please	indicate	your	lab id:	
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Please answer each of the following questions by checking the box of the preferred option for every row:

Row	Option A		Option B
1	\$10.00 today		\$10.00 in 2 weeks
2	\$10.00 today		\$10.25 in 2 weeks
3	\$10.00 today		\$10.50 in 2 weeks
4	\$10.00 today		\$10.75 in 2 weeks
5	\$10.00 today		\$11.00 in 2 weeks
6	\$10.00 today		\$11.25 in 2 weeks
7	\$10.00 today		\$11.50 in 2 weeks
8	\$10.00 today		\$11.75 in 2 weeks
9	\$10.00 today		\$12.00 in 2 weeks
10	\$10.00 today		\$12.25 in 2 weeks
11	\$10.00 today		\$12.50 in 2 weeks
12	\$10.00 today		\$12.75 in 2 weeks
13	\$10.00 today		\$13.00 in 2 weeks
14	\$10.00 today		\$13.25 in 2 weeks
15	\$10.00 today		\$13.50 in 2 weeks
16	\$10.00 today		\$13.75 in 2 weeks
17	\$10.00 today		\$14.00 in 2 weeks
18	\$10.00 today		\$14.25 in 2 weeks
19	\$10.00 today		\$14.50 in 2 weeks
20	\$10.00 today		\$14.75 in 2 weeks
21	\$10.00 today		\$15.00 in 2 weeks

Row	Option A	Option I	3
1	\$10.00 in 1 week	\$10.00 in	2 weeks
2	\$10.00 in 1 week	\$10.25 in	2 weeks
3	\$10.00 in 1 week	\$10.50 in	2 weeks
4	\$10.00 in 1 week	\$10.75 in	2 weeks
5	\$10.00 in 1 week	\$11.00 in	2 weeks
6	\$10.00 in 1 week	\$11.25 in	2 weeks
7	\$10.00 in 1 week	\$11.50 in	2 weeks
8	\$10.00 in 1 week	\$11.75 in	2 weeks
9	\$10.00 in 1 week	\$12.00 in	2 weeks
10	\$10.00 in 1 week	\$12.25 in	2 weeks
11	\$10.00 in 1 week	\$12.50 in	2 weeks
12	\$10.00 in 1 week	\$12.75 in	2 weeks
13	\$10.00 in 1 week	\$13.00 in	2 weeks
14	\$10.00 in 1 week	\$13.25 in	2 weeks
15	\$10.00 in 1 week	\$13.50 in	2 weeks
16	\$10.00 in 1 week	\$13.75 in	2 weeks
17	\$10.00 in 1 week	\$14.00 in	2 weeks
18	\$10.00 in 1 week	\$14.25 in	2 weeks
19	\$10.00 in 1 week	\$14.50 in	2 weeks
20	\$10.00 in 1 week	\$14.75 in	2 weeks
21	\$10.00 in 1 week	\$15.00 in	2 weeks

Row	Option A		Option B
1	\$10.00 in 1 week		\$10.00 in 3 weeks
2	\$10.00 in 1 week		\$10.25 in 3 weeks
3	\$10.00 in 1 week		\$10.50 in 3 weeks
4	\$10.00 in 1 week		\$10.75 in 3 weeks
5	\$10.00 in 1 week		\$11.00 in 3 weeks
6	\$10.00 in 1 week		\$11.25 in 3 weeks
7	\$10.00 in 1 week		\$11.50 in 3 weeks
8	\$10.00 in 1 week		\$11.75 in 3 weeks
9	\$10.00 in 1 week		\$12.00 in 3 weeks
10	\$10.00 in 1 week		\$12.25 in 3 weeks
11	\$10.00 in 1 week		\$12.50 in 3 weeks
12	\$10.00 in 1 week		\$12.75 in 3 weeks
13	\$10.00 in 1 week		13.00 in 3 weeks
14	\$10.00 in 1 week		\$13.25 in 3 weeks
15	\$10.00 in 1 week		13.50 in 3 weeks
16	\$10.00 in 1 week		13.75 in 3 weeks
17	\$10.00 in 1 week		\$14.00 in 3 weeks
18	\$10.00 in 1 week		\$14.25 in 3 weeks
19	\$10.00 in 1 week		\$14.50 in 3 weeks
20	\$10.00 in 1 week		\$14.75 in 3 weeks
21	\$10.00 in 1 week		\$15.00 in 3 weeks

Row	Option A	Option B
1	\$10.00 in 1 week	\$10.00 in 4 weeks
2	\$10.00 in 1 week	\$10.25 in 4 weeks
3	\$10.00 in 1 week	\$10.50 in 4 weeks
4	\$10.00 in 1 week	\$10.75 in 4 weeks
5	\$10.00 in 1 week	\$11.00 in 4 weeks
6	\$10.00 in 1 week	\$11.25 in 4 weeks
7	\$10.00 in 1 week	\$11.50 in 4 weeks
8	\$10.00 in 1 week	\$11.75 in 4 weeks
9	\$10.00 in 1 week	\$12.00 in 4 weeks
10	\$10.00 in 1 week	\$12.25 in 4 weeks
11	\$10.00 in 1 week	\$12.50 in 4 weeks
12	\$10.00 in 1 week	\$12.75 in 4 weeks
13	\$10.00 in 1 week	\$13.00 in 4 weeks
14	\$10.00 in 1 week	\$13.25 in 4 weeks
15	\$10.00 in 1 week	\$13.50 in 4 weeks
16	\$10.00 in 1 week	\$13.75 in 4 weeks
17	\$10.00 in 1 week	\$14.00 in 4 weeks
18	\$10.00 in 1 week	\$14.25 in 4 weeks
19	\$10.00 in 1 week	\$14.50 in 4 weeks
20	\$10.00 in 1 week	\$14.75 in 4 weeks
21	\$10.00 in 1 week	\$15.00 in 4 weeks

Question 10
Payment: \$25. Payment date:

Row	Option A	Opt	ion B		
1	In 3 weeks		0%	chance of	2 weeks
_	THE OWNERS	Ш	100%	chance of	5 weeks
2	In 3 weeks		5%	chance of	2 weeks
			95%	chance of	5 weeks
3	In 3 weeks		10%	chance of	2 weeks
			90%	chance of	5 weeks
4	In 3 weeks		15%	chance of	2 weeks
			85%	chance of	5 weeks
5	In 3 weeks		20%	chance of	2 weeks
			80%	chance of	5 weeks
6	In 3 weeks		25%	chance of	2 weeks
			75%	chance of	5 weeks
7	In 3 weeks		30%	chance of	2 weeks
			70%	chance of	5 weeks
8	In 3 weeks		35%	chance of	2 weeks
			65%	chance of	5 weeks
9	In 3 weeks		40%	chance of	2 weeks
			60%	chance of	5 weeks
10	In 3 weeks		45%	chance of	2 weeks
			55%	chance of	5 weeks
11	In 3 weeks		50%	chance of	2 weeks
			50%	chance of	5 weeks
12	In 3 weeks		55%	chance of	2 weeks
			45%	chance of	5 weeks
13	In 3 weeks		60%	chance of	2 weeks
	T 0 1		40%	chance of	5 weeks
14	In 3 weeks		65%	chance of	2 weeks
	T 0 1		35%	chance of	5 weeks
15	In 3 weeks		70%	chance of	2 weeks
1.0	T 91		30%	chance of	5 weeks
16	In 3 weeks		75%	chance of	2 weeks
17	In 3 weeks		25% 80%	chance of	5 weeks 2 weeks
17	III 5 weeks		20%	chance of	5 weeks
18	In 3 weeks		85%	chance of	2 weeks
10	III 5 WCCKS		15%	chance of	5 weeks
19	In 3 weeks		90%	chance of	2 weeks
_0		$ \sqcup $	10%	chance of	5 weeks
20	In 3 weeks		95%	chance of	2 weeks
			5%	chance of	5 weeks
21	In 3 weeks		100%	chance of	2 weeks
			0%	chance of	5 weeks
		l	- / V		

Question 11
Payment: \$25. Payment date:

Row	Option A	Optio	on B		
1	In 2 weeks		0%	chance of	1 week
			100%	chance of	5 weeks
2	In 2 weeks		5%	chance of	1 week
			95%	chance of	5 weeks
3	In 2 weeks		10%	chance of	1 week
			90%	chance of	5 weeks
4	In 2 weeks	П	15%	chance of	1 week
			85%	chance of	5 weeks
5	In 2 weeks		20%	chance of	1 week
			80%	chance of	5 weeks
6	In 2 weeks		25%	chance of	1 week
			75%	chance of	5 weeks
7	In 2 weeks		30%	chance of	1 week
			70%	chance of	5 weeks
8	In 2 weeks		35%	chance of	1 week
			65%	chance of	5 weeks
9	In 2 weeks		40%	chance of	1 week
			60%	chance of	5 weeks
10	In 2 weeks	П	45%	chance of	1 week
			55%	chance of	5 weeks
11	In 2 weeks		50%	chance of	1 week
			50%	chance of	5 weeks
12	In 2 weeks		55%	chance of	1 week
			45%	chance of	5 weeks
13	In 2 weeks	П	60%	chance of	1 week
			40%	chance of	5 weeks
14	In 2 weeks	П	65%	chance of	1 week
			35%	chance of	5 weeks
15	In 2 weeks		70%	chance of	1 week
			30%	chance of	5 weeks
16	In 2 weeks		75%	chance of	1 week
			25%	chance of	5 weeks
17	In 2 weeks		80%	chance of	1 week
			20%	chance of	5 weeks
18	In 2 weeks		85%	chance of	1 week
	T 0 1		15%	chance of	5 weeks
19	In 2 weeks		90%	chance of	1 week
	T 0 1		10%	chance of	5 weeks
2 0	In 2 weeks		95%	chance of	1 week
	T 0 1		5%	chance of	5 weeks
21	In 2 weeks		100%	chance of	1 week
		_	0%	chance of	5 weeks

QUESTIONNAIRE – PART III

Please indicate your lab id: _____

Please answer each of the following questions by checking the box of the preferred option for every row:

Row	Option A		Optio	n B		
1	\$15			0%	chance of	\$20
				100%	chance of	\$8
2	\$15			5%	chance of	\$20
				95%	chance of	\$8
3	\$15			10%	chance of	\$20
		Ш		90%	chance of	\$8
4	\$15			15%	chance of	\$20
				85%	chance of	\$8
5	\$15			20%	chance of	\$20
				80%	chance of	\$8
6	\$15			25%	chance of	\$20
				75%	chance of	\$8
7	\$15			30%	chance of	\$20
				70%	chance of	\$8
8	\$15			35%	chance of	\$20
				65%	chance of	\$8
9	\$15			40%	chance of	\$20
				60%	chance of	\$8
10	\$15			45%	chance of	\$20
				55%	chance of	\$8
11	\$15			50%	chance of	\$20
				50%	chance of	\$8
12	\$15			55%	chance of	\$20
				45%	chance of	\$8
13	\$15			60%	chance of	\$20
	A			40%	chance of	\$8
14	\$15			65%	chance of	\$20
	Φ4.5			35%	chance of	\$8
15	\$15			70%	chance of	\$20
10	0.1 =			30%	chance of	\$8
16	\$15			75%	chance of	\$20
17	Q15			25%	chance of	\$8
17	\$15			80%	chance of	\$20
10	Q 15			20% 85%	chance of	\$8 \$20
18	\$15			15%	chance of	\$20 \$8
19	\$15			90%	chance of	\$20
19	ΦΙΘ			$\frac{90\%}{10\%}$	chance of	\$20 \$8
20	\$15			95%	chance of	\$20
40	Ψ±θ			5%	chance of	\$8
21	\$15			100%	chance of	\$20
41	Ψ±θ			0%	chance of	\$8
				070	CHAILCE OI	ΨΟ

Row	Option	n A			Opti	on B		
1	50%	chance of	\$15			0%	chance of	\$20
	50%	chance of	\$8	Ш		100%	chance of	\$8
2	50%	chance of	\$15			5%	chance of	\$20
	50%	chance of	\$8			95%	chance of	\$8
3	50%	chance of	\$15			10%	chance of	\$20
	50%	chance of	\$8	Ш		90%	chance of	\$8
4	50%	chance of	\$15			15%	chance of	\$20
	50%	chance of	\$8			85%	chance of	\$8
5	50%	chance of	\$15			20%	chance of	\$20
	50%	chance of	\$8	Ш		80%	chance of	\$8
6	50%	chance of	\$15			25%	chance of	\$20
	50%	chance of	\$8	Ш		75%	chance of	\$8
7	50%	chance of	\$15			30%	chance of	\$20
	50%	chance of	\$8			70%	chance of	\$8
8	50%	chance of	\$15			35%	chance of	\$20
	50%	chance of	\$8			65%	chance of	\$8
9	50%	chance of	\$15			40%	chance of	\$20
	50%	chance of	\$8			60%	chance of	\$8
10	50%	chance of	\$15			45%	chance of	\$20
	50%	chance of	\$8			55%	chance of	\$8
11	50%	chance of	\$15			50%	chance of	\$20
	50%	chance of	\$8			50%	chance of	\$8
12	50%	chance of	\$15			55%	chance of	\$20
	50%	chance of	\$8			45%	chance of	\$8
13	50%	chance of	\$15			60%	chance of	\$20
	50%	chance of	\$8			40%	chance of	\$8
14	50%	chance of	\$15			65%	chance of	\$20
	50%	chance of	\$8			35%	chance of	\$8
15	50%	chance of	\$15			70%	chance of	\$20
	50%	chance of	\$8			30%	chance of	\$8
16	50%	chance of	\$15			75%	chance of	\$20
	50%	chance of	\$8			25%	chance of	\$8
17	50%	chance of	\$15			80%	chance of	\$20
	50%	chance of	\$8			20%	chance of	\$8
18	50%	chance of	\$15			85%	chance of	\$20
	50%	chance of	\$8			15%	chance of	\$8
19	50%	chance of	\$15			90%	chance of	\$20
	50%	chance of	\$8			10%	chance of	\$8
20	50%	chance of	\$15			95%	chance of	\$20
	50%	chance of	\$8			5%	chance of	\$8
21	50%	chance of	\$15			100%	chance of	\$20
	50%	chance of	\$8			0%	chance of	\$8

Row	Option	n A			Optio	on B		
1	20%	chance of	\$15			0%	chance of	\$20
	80%	chance of	\$8	Ш		100%	chance of	\$8
2	20%	chance of	\$15			5%	chance of	\$20
	80%	chance of	\$8			95%	chance of	\$8
3	20%	chance of	\$15			10%	chance of	\$20
	80%	chance of	\$8	Ш		90%	chance of	\$8
4	20%	chance of	\$15			15%	chance of	\$20
	80%	chance of	\$8			85%	chance of	\$8
5	20%	chance of	\$15			20%	chance of	\$20
	80%	chance of	\$8			80%	chance of	\$8
6	20%	chance of	\$15			25%	chance of	\$20
	80%	chance of	\$8			75%	chance of	\$8
7	20%	chance of	\$15			30%	chance of	\$20
	80%	chance of	\$8			70%	chance of	\$8
8	20%	chance of	\$15			35%	chance of	\$20
	80%	chance of	\$8	Ш		65%	chance of	\$8
9	20%	chance of	\$15			40%	chance of	\$20
	80%	chance of	\$8			60%	chance of	\$8
10	20%	chance of	\$15			45%	chance of	\$20
	80%	chance of	\$8			55%	chance of	\$8
11	20%	chance of	\$15			50%	chance of	\$20
	80%	chance of	\$8	Ш		50%	chance of	\$8
12	20%	chance of	\$15			55%	chance of	\$20
	80%	chance of	\$8	Ш		45%	chance of	\$8
13	20%	chance of	\$15			60%	chance of	\$20
	80%	chance of	\$8	Ш		40%	chance of	\$8
14	20%	chance of	\$15			65%	chance of	\$20
	80%	chance of	\$8	Ш		35%	chance of	\$8
15	20%	chance of	\$15			70%	chance of	\$20
	80%	chance of	\$8	Ш		30%	chance of	\$8
16	20%	chance of	\$15			75%	chance of	\$20
	80%	chance of	\$8	Ш		25%	chance of	\$8
17	20%	chance of	\$15			80%	chance of	\$20
	80%	chance of	\$8	Ш		20%	chance of	\$8
18	20%	chance of	\$15			85%	chance of	\$20
	80%	chance of	\$8			15%	chance of	\$8
19	20%	chance of	\$15			90%	chance of	\$20
	80%	chance of	\$8			10%	chance of	\$8
20	20%	chance of	\$15			95%	chance of	\$20
	80%	chance of	\$8			5%	chance of	\$8
21	20%	chance of	\$15			100%	chance of	\$20
	80%	chance of	\$8			0%	chance of	\$8

Row	Option A	Opti	on B		
1	\$20		0%	chance of	\$30
		Ш	100%	chance of	\$5
2	\$20		5%	chance of	\$30
		Ш	95%	chance of	\$5
3	\$20		10%	chance of	\$30
			90%	chance of	\$5
4	\$20		15%	chance of	\$30
			85%	chance of	\$5
5	\$20		20%	chance of	\$30
			80%	chance of	\$5
6	\$20		25%	chance of	\$30
			75%	chance of	\$5
7	\$20		30%	chance of	\$30
			70%	chance of	\$5
8	\$20		35%	chance of	\$30
			65%	chance of	\$5
9	\$20		40%	chance of	\$30
			60%	chance of	\$5
10	\$20		45%	chance of	\$30
			55%	chance of	\$5
11	\$20		50%	chance of	\$30
			50%	chance of	\$5
12	\$20	П	55%	chance of	\$30
			45%	chance of	\$5
13	\$20		60%	chance of	\$30
	A		40%	chance of	\$5
14	\$20		65%	chance of	\$30
	Ф20		35%	chance of	\$5
15	\$20		70%	chance of	\$30
1.0	Фоо		30%	chance of	\$5
16	\$20		75%	chance of	\$30 ee
17	600		25%	chance of	\$5
17	\$20		80%	chance of	\$30 &5
10	\$20		20% 85%	chance of	\$5 \$30
18	\$20		15%	chance of	\$50 \$5
19	\$20		90%	chance of	\$30
19	ΨΔU		$\frac{90\%}{10\%}$	chance of	ู่ \$5
20	\$20		95%	chance of	\$30
4 0	ΨΔΟ		5%	chance of	\$50 \$5
21	\$20		100%	chance of	\$30
41	ΨΔΟ		0%	chance of	\$50 \$5
			070	chance of	ΨΟ

Row	Option	ı A			Optio	on B		
1	50%	chance of	\$20			0%	chance of	\$30
	50%	chance of	\$5	Ш		100%	chance of	\$3
2	50%	chance of	\$20			5%	chance of	\$30
	50%	chance of	\$5			95%	chance of	\$3
3	50%	chance of	\$20			10%	chance of	\$30
	50%	chance of	\$5	Ш		90%	chance of	\$3
4	50%	chance of	\$20			15%	chance of	\$30
	50%	chance of	\$5			85%	chance of	\$3
5	50%	chance of	\$20			20%	chance of	\$30
	50%	chance of	\$5	Ш		80%	chance of	\$3
6	50%	chance of	\$20			25%	chance of	\$30
	50%	chance of	\$5	Ш		75%	chance of	\$3
7	50%	chance of	\$20			30%	chance of	\$30
	50%	chance of	\$5	Ш		70%	chance of	\$3
8	50%	chance of	\$20			35%	chance of	\$30
	50%	chance of	\$5			65%	chance of	\$3
9	50%	chance of	\$20			40%	chance of	\$30
	50%	chance of	\$5			60%	chance of	\$3
10	50%	chance of	\$20			45%	chance of	\$30
	50%	chance of	\$5			55%	chance of	\$3
11	50%	chance of	\$20			50%	chance of	\$30
	50%	chance of	\$5			50%	chance of	\$3
12	50%	chance of	\$20			55%	chance of	\$30
	50%	chance of	\$5			45%	chance of	\$3
13	50%	chance of	\$20			60%	chance of	\$30
	50%	chance of	\$5			40%	chance of	\$3
14	50%	chance of	\$20			65%	chance of	\$30
	50%	chance of	\$5			35%	chance of	\$3
15	50%	chance of	\$20		П	70%	chance of	\$30
	50%	chance of	\$5			30%	chance of	\$3
16	50%	chance of	\$20		П	75%	chance of	\$30
	50%	chance of	\$5			25%	chance of	\$3
17	50%	chance of	\$20			80%	chance of	\$30
	50%	chance of	\$5			20%	chance of	\$3
18	50%	chance of	\$20		П	85%	chance of	\$30
	50%	chance of	\$5			15%	chance of	\$3
19	50%	chance of	\$20			90%	chance of	\$30
	50%	chance of	\$5			10%	chance of	\$3
20	50%	chance of	\$20			95%	chance of	\$30
	50%	chance of	\$5			5%	chance of	\$3
21	50%	chance of	\$20			100%	chance of	\$30
	50%	chance of	\$5			0%	chance of	\$3

Row	Option	ı A			Optio	on B		
1	10%	chance of	\$20			0%	chance of	\$30
	90%	chance of	\$5			100%	chance of	\$3
2	10%	chance of	\$20			5%	chance of	\$30
	90%	chance of	\$5			95%	chance of	\$3
3	10%	chance of	\$20			10%	chance of	\$30
	90%	chance of	\$5			90%	chance of	\$3
4	10%	chance of	\$20			15%	chance of	\$30
	90%	chance of	\$5	Ш		85%	chance of	\$3
5	10%	chance of	\$20			20%	chance of	\$30
	90%	chance of	\$5	Ш		80%	chance of	\$3
6	10%	chance of	\$20			25%	chance of	\$30
	90%	chance of	\$5			75%	chance of	\$3
7	10%	chance of	\$20			30%	chance of	\$30
	90%	chance of	\$5			70%	chance of	\$3
8	10%	chance of	\$20			35%	chance of	\$30
	90%	chance of	\$5			65%	chance of	\$3
9	10%	chance of	\$20			40%	chance of	\$30
	90%	chance of	\$5			60%	chance of	\$3
10	10%	chance of	\$20			45%	chance of	\$30
	90%	chance of	\$5			55%	chance of	\$3
11	10%	chance of	\$20			50%	chance of	\$30
	90%	chance of	\$5			50%	chance of	\$3
12	10%	chance of	\$20			55%	chance of	\$30
	90%	chance of	\$5			45%	chance of	\$3
13	10%	chance of	\$20			60%	chance of	\$30
	90%	chance of	\$5			40%	chance of	\$3
14	10%	chance of	\$20			65%	chance of	\$30
	90%	chance of	\$5			35%	chance of	\$3
15	10%	chance of	\$20		П	70%	chance of	\$30
	90%	chance of	\$5			30%	chance of	\$3
16	10%	chance of	\$20		П	75%	chance of	\$30
	90%	chance of	\$5			25%	chance of	\$3
17	10%	chance of	\$20		П	80%	chance of	\$30
	90%	chance of	\$5			20%	chance of	\$3
18	10%	chance of	\$20			85%	chance of	\$30
	90%	chance of	\$5			15%	chance of	\$3
19	10%	chance of	\$20			90%	chance of	\$30
	90%	chance of	\$5			10%	chance of	\$3
20	10%	chance of	\$20			95%	chance of	\$30
	90%	chance of	\$5			5%	chance of	\$3
21	10%	chance of	\$20			100%	chance of	\$30
	90%	chance of	\$5		_	0%	chance of	\$3

Real Effort Experiment Instructions and Task Screens

Instructions

This is a survey to study your preferences over working schedules. Today, you will be asked 3 questions about them. During each of the **next 3 weeks**, you will be asked to log in again and complete a task. The task consists of **pressing the 'a' and 'b' keys on your keyboard 750 times**. In previous studies, completing this task took an average of 5 minutes.

You will receive \$5 compensation via MTurk for completing this survey and \$3 compensation via MTurk for completing each of the next 3 weeks' tasks. If you do not complete the task for one week, you will still be eligible to complete the following weeks' tasks. You will receive a message with a \$0.05 bonus each week to remind you that a task is available. You will have 7 days to finish each task once it becomes available. If you complete all tasks you also receive a \$5 bonus.

The research timeline is shown below:

Week	Date	Task	Reward
0	Today	This survey	\$5
1	In 7 days	750 button presses (unless selected to skip)	\$3
2	In 14 days	750 button presses (unless selected to skip)	\$3

3	In 21 days	750 button presses (unless selected to skip)	\$3
			Additional \$5 if complete all tasks

Work Reduction

Today, we will offer you the opportunity to skip work in one of the future weeks and **receive the compensation anyway**. We will ask you which of the possible reductions you prefer.

For example, you may be offered the option to skip work on week 1. If this option is selected, you don't have to work on week 1 to earn money: you will still receive that week's \$3 payment as a bonus, without needing to log in; and you will remain eligible to receive the \$5 bonus for completing all 4 tasks.

Some options may involve **chance**. For example, one option may be:

"Skip work in either week 2 or week 3, with 50% chance each."

If this option is selected, the computer will simulate the flip of a coin. You will be allowed to skip work in week 2 in case of heads, and you will be allowed to skip work in week 3 in case of tails.

After you answer all 3 questions, one of them will be randomly selected with equal chance. You will then receive the work reduction plan associated with the option you chose in that question.

Consent

This research is conducted by a faculty member of Princeton University to study preferences over working schedules. If you have any questions, you can contact

Princeton.MTurk.Surveys@gmail.com or the IRB office at irb@princeton.edu .

Participation is voluntary and all records from this study will be kept confidential. Your responses will be kept private, and we will not include any information that will make it possible to identify you in any report we might publish. If you continue, you are consenting to participate in this research. Participation may be stopped at any time without penalty, though you will no longer be eligible for the \$5 bonus for finishing all weeks of the survey.

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This page describes the button pressing tasks that you will be asked to complete in the next weeks. To complete this task, you will need to alternatively press 'a' and 'b' on your keyboard 750 times. Every time you successfully press 'a' and then 'b', the counter increases by one point. The counter only increases when you **alternate** button pushes: just pressing the 'a' or 'b' button without alternating between the two will not increase the counter.

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Question 1. Which of the following two options do you prefer?

Option a: Skip work in week 2. In this case, your work schedule will be:

Week 1	Week 2	Week 3
Work	No Work	Work

Option b: Skip work in either week 1 or week 3, with 50% chance each. In this case, your work schedule will be:

Probability	Week 1	Week 2	Week 3
50%	No Work	Work	Work
50%	Work	Work	No Work

Pick your preferred option:

\bigcirc	Option	a:	Skip	work	in	week	2.
\sim	0 0 21 0 1 1		0111				

Option b: Skip work in either week 1 or week 3, with 50% chance each.

Question 2. Which of the following two options do you prefer?

Option a: Skip work either week 1 or week 2, with 50% chance each. In this case, your work schedule will be:

Probability	Week 1	Week 2	Week 3
50%	No Work	Work	Work
50%	Work	No Work	Work

Option b: Skip work either week 1 or week 3, with 75% and 25% chance each. In this case, your work schedule will be:

Probability	Week 1	Week 2	Week 3
75%	No Work	Work	Work
25%	Work	Work	No Work

Pick your preferred option:

Option a: Skip work either week 1 or week 2, with 50% chance each.
Option b: Skip work either week 1 or week 3, with 75% and 25% chance each.

Question 3. Which of the following two options do you prefer?

Option a: Skip work either week 2 or week 3, with 2/3 and 1/3 chance each. In this case, your work schedule will be:

Probability	Week 1	Week 2	Week 3
66%	Work	No Work	Work
34%	Work	Work	No Work

Option b: Skip work either week 1 or week 3, with 1/3 and 2/3 chance each. In this case, your work schedule will be:

Probability	Week 1	Week 2	Week 3
34%	No Work	Work	Work
66%	Work	Work	No Work

Pick your preferred option:

Option a: Skip work either week 2 or week 3, with 66% and 34% chance each.	
Option b: Skip work either week 1 or week 3, with 34% and 66% chance each.	

Human and English Comprehension Test

Please answer the following question to prove that you are human. Tom has 5 apples. His brother has 8 apples. How many apples do they have in total? Outcome Screens (Example) The question that has been randomly selected for reward was: Which option would you prefer? Option a: Skip work either week 1 or week 2, with 50% chance each. Option b: Skip work either week 1 or week 3, with 75% and 25% chance each. You chose: "Option b: Skip work either week 1 or week 3, with 75% and 25% chance each." You chose: "Option b: Skip work either week 1 or week 3, with 75% and 25% chance each."

The computer has randomly selected one of these options.

"Skip work on Week 3" was drawn, so your work schedule is the following:

Week 1	Week 2	Week 3
Work	Work	No Work

Please check below to confirm the workload reduction.

I acknowledge the work plan above. If I finish all the work scheduled above, I will also earn an additional bonus of \$5.

Real Effort Task Instruction Screen

Instruction Page

Please read the instructions below before you start the task.

This page describes the button pressing tasks that you are asked to complete. To complete this task, you will need to alternatively press 'a' and 'b' on your keyboard 750 times. Every time you successfully press 'a' and then 'b', the counter increases by one point. The counter only increases when you <u>alternate</u> button pushes: just pressing the 'a' or 'b' button without alternating between the two will not increase the counter.

Buttons must be pressed by hand only (key-binding or automated button-pushing programs/scripts cannot be used) or task will not be approved.

Complete the required number of points to submit the HIT.

Click the button below to start.



Task Section Screen

Task Section

Press 'a' then 'b' ..

Points: 0

Required Points: 750

Task Completion Screen

The button pressing tasks for this week are completed

If you have any questions or concerns, please contact Princeton.MTurk.Surveys@gmail.com

Thank you for your participation. Please click **Submit** below to submit your work to MTurk.

Submit

Real Effort Experiment Bonus Message Examples

(Excluded messages are similar and available on request.)

Week 1 Message

Dear MTurk Worker,

This is a reminder and update of the Button Pressing Task Schedule. For this week, you were selected to receive no button pressing tasks, but the bonus of \$3 is still rewarded. You are still eligible for the additional \$5 bonus if you complete the tasks in the other two weeks.

As a reminder, your schedule is

Week 1: No tasks, this was the "skipped" week. You are now receiving a \$3 bonus automatically.

Week 2: 750 button presses for \$3

Week 3: 750 button presses for \$3

If you finish all three weeks, you will receive an additional \$5 bonus through MTurk Rewards.

Please contact me at Princeton.MTurk.Surveys@gmail.com if you have any questions or concerns.

Thank you

University Research Collaboration

Final Bonus Notification

Dear MTurk Worker,

This is the conclusion of our research study. Thank you for participating in this research study.

Our records indicate that you finished all weeks of assigned HITs, and as a result, we have sent you the \$5 bonus in this message.

If you have any questions or concerns, please email us at Princeton.MTurk.Surveys@gmail.com

Thank you,

University Research Collaboration