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Battle for the thermostat: Gender and the effect of temperature on cognitive performance

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S3 Instructions of the experiment

Original instructions were in German.

Instructions

Welcome to our experiment. Please read the instruction carefully. If you have a question, please raise your hand and we will come over to you. Please do not communicate with other participants during the experiment.

This experiment is about temperature.

Your participation is voluntary. You are allowed to leave the room at any time.

Every participant will receive 3EUR for attending, which will be paid out independently of the decisions made in the experiment.

Furthermore, you will be able to earn additional money. At the end of the experiment, you will receive the income you earned over the course of the experiment plus the 3EUR for attending in cash.

Your decisions are private and no other participant will know about them.

The experiment will consist of several parts and a post-questionnaire. You will receive instructions for each part of the experiment before the part of the experiment starts.

Do you have any questions?

Part 1

Below are several problems that vary in difficulty. Try to answer as many as you can in 5 minutes. For each question you answer correctly, you will receive 1EUR.

A bat and a ball cost 1.10EUR in total. The bat costs 1.00EUR more than the ball. How much does the ball cost? _____

If it takes 5 machines 5 minutes to make 5 widgets, how long would it take 100 machines to make 100 widgets? _____

In a lake, there is a patch of lily pads. Every day, the patch doubles in size. If it takes 48 days for the patch to cover the entire lake, how long would it take for the patch to cover half of the lake?

Part 2

Your task is to add up five two-digit numbers (see the example below). Solve as many problems as you can. You will have 5 minutes from the time the experimenter tells you to start. You may use scratch paper, but use of a calculator is not allowed.

You will receive 0.10EUR per correct answer.

EXAMPLE					ANSWER
88	21	79	78	16	282
QUESTIONS					
18	76	37	51	23	
73	70	27	50	35	
43	69	31	71	96	
63	79	48	12	13	
28	23	71	28	52	
31	64	48	48	45	
22	61	55	18	35	
53	23	16	40	75	
24	15	48	50	21	
27	36	25	76	25	
42	43	43	17	10	
86	46	50	54	31	
53	51	94	97	58	
22	98	87	77	56	
21	39	45	13	21	
35	35	46	78	96	
95	35	31	21	67	
79	35	76	63	78	
33	90	62	80	68	
91	26	48	32	77	
46	49	25	23	74	
80	88	50	92	90	
32	94	77	45	90	
66	86	67	79	44	
35	71	80	79	37	
30	49	59	66	97	
76	42	85	97	20	
78	82	90	70	12	
18	61	70	84	27	
14	91	64	17	64	

79	17	68	92	48	
53	95	29	59	78	
18	89	76	55	46	
76	87	89	69	26	
72	85	93	46	58	
49	41	93	70	86	
68	86	30	84	21	
51	50	29	89	47	
97	41	52	53	16	
34	63	86	36	43	
28	58	56	98	46	
66	68	96	16	23	
82	59	43	51	55	
77	61	78	39	46	
69	36	41	58	61	
90	45	27	90	86	
83	36	63	40	55	
13	27	84	63	96	
34	10	24	25	56	
75	74	57	45	74	

Part 3

For the set of letters below, construct as many words as possible within 5 minutes. Rewards are increasing in the length of the word, with the Nth letter in a word worth N points. That is while a two letter word is worth $1+2=3$ points, a three letter word is worth $1+2+3=6$ points, a four letter word is worth $1+2+3+4=10$ points, a five letter word is worth $1+2+3+4+5=15$ points and so on (note: 1 letter words will not count). Each point is worth 0.02EUR, so a two letter word is worth 0.06EUR, a three letter word is worth 0.12EUR, a four letter word is worth 0.20EUR, a five letter word is worth 0.30EUR, a six letter word is worth 0.42EUR, a seven letter word is worth 0.56EUR, an eight letter word is worth 0.72EUR, and a nine letter word is worth 0.90EUR. Note each letter can be used only once in one particular word. It means if you already have used an “A” in a word, you cannot use it again in this word. However, you can use it again in the next word.

Letters (in alphabetical order) are:

ADEHINRSTU

Please write down the words you constructed:

[illegible]

Post-Questionnaire

Please describe briefly how you made your decisions in this experiment:

Gender:

- ☐ Male
☐ Female

Age: _____

Major: _____

What is your native language? _____

On a scale from 0 to 10 how much did you enjoy the math task (1-not at all, 10-very much)?

On a scale from 0 to 10 how much did you enjoy the words task (1-not at all, 10-very much)?
