

Questions about the mean value computation task

ST01

Did you have any strategy or different strategies for the task you have just completed (i.e., the mean value computation task)? Please also briefly describe your strategy(ies).

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Questions about the mean value computation task

ST04

When working on the mean value computation task, a possible strategy is to determine whether the majority of the numbers' first digits are (a) less than 5 or (b) 5 or greater.

Did you use this strategy when working on the task?

- ☐ yes
☐ no

Page 03

PHP code

```
if (value('ST04') == 1) {
    question('ST05');
}
```

question('ST05')

ST05

Questions about the mean value computation task

Please indicate the percentage of trials in which you used the strategy to count whether the majority of the first digits of the numbers displayed was (a) smaller than 5 or (b) 5 or greater.

- | | | | | | | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 10 % | 20 % | 30 % | 40 % | 50 % | 60 % | 70 % | 80 % | 90 % | 100 % |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Questions about the mean value computation task

ST06

On average, how many of the 16 numbers displayed did you take into account when deciding whether the mean was smaller than 500 or larger than 500?

 numbers

Questions about the mean value computation task

ST07

Please indicate the extent to which you agree with the following statement.

	1	2	3	4	5	6	7	8	9	10
	do not									strongly
	agree at all									agree
In each round, I felt like the number I looked at last was particularly crucial for my decision.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Questions about the mean value computation task

BI01

Please indicate the extent to which you agree with the following statement.

	1	2	3	4	5	6	7	8	9	10
	do not									strongly
	agree at all									agree
I noticed some numbers more than others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

PHP code

```
if (value('bias') > 1) {  
    question('BN01');  
}
```

question('BN01')

BN01

Questions about the mean value computation task

Please select which numbers where more noticeable to you.

 [Please choose] v

PHP code

```
if (value('bias') > 1) {  
    if (value('bias_select') == 1) {  
        replace('%numbers%', 'Low numbers');  
        replace('%answer%', '> 500');  
    } elseif (value('bias_select') == 2){  
        replace('%numbers%', 'High numbers');  
        replace('%answer%', '< 500');  
    } else {  
        goToPage('IN05');  
    }  
}  
  
if (value('bias') > 1) {  
    question('BS01');  
}
```

question('BS01')

BS01 

Questions about the mean value computation task

Please indicate the extent to which you agree with the following statement.

	1	2	3	4	5	6	7	8	9	10
	do not									strongly
	agree at all									agree
⇒ numbers ⇐ were more noticeable to me, so I chose "⇒ answer ⇐" when I was unsure.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

PHP code

```
//will only work when combined with pavlovia  
  
if (value('UR01_RV3') == "guess") {  
    question('IN05');  
}
```

question('IN05')

IN05 

Questions about the mean value computation task

An important aim of this study is to test the instructions given to you.

During the mean value computation task you were instructed to take an [educated guess](#), meaning to choose the answer that seemed most probable [at first glance](#), even without complete certainty of its correctness.

What was your understanding of this instruction?

Questions about the mean value computation task

ST03 

Do you have any further comments about the study (e.g., that you found something unclear or that you misunderstood the task at times)?

Questions about yourself

DE01 

How old are you?

 years

Questions about yourself

DE11 

Please indicate your handedness.

You can learn more about each category by moving your mouse over it.

- ☐ right-handed
- ☐ left-handed
- ☐ mixed-handed
- ☐ ambidextrous

PHP code

```
if (value('DE11') == 3 | value('DE11') == 4) {  
    question('DE24');  
}
```

question('DE24')

DE24 

Questions about yourself

When using a computer keyboard, would you consider your left hand or your right hand to be your “stronger hand”?

- ☐ left hand
- ☐ right hand

Questions about yourself

DE25 

Did you finish high school?

- ☐ yes
- ☐ no

PHP code

```
if (value('DE25') == 2) {  
    goToPage('student');  
}
```

Questions about yourself

DE12

Overall, what grades did you receive in your high school diploma?

If your were scored on a different scoring system, please check the table to see how your score translates.

- ☐ Mostly As
- ☐ About half As and half Bs
- ☐ Mostly Bs
- ☐ About half Bs and half Cs
- ☐ Mostly Cs
- ☐ About half Cs and half Ds
- ☐ Mostly Ds
- ☐ Mostly below Ds
- ☐ Other, please specify:

Grade	A	B	C	D	F
Percentage *	≥ 90 %	≥ 80 %	≥ 70 %	≥ 60 %	< 60 %
Point equivalents / GAD	4.0	3.0	2.0	1.0	0

* "A" refers to percentages of (including) 90 % and above,
"B" refers to percentages of(including) 80 % – 89 %,
"C" refers to percentages of (including) 70 % – 79 %,
"D" refers to percentages of(including) 60 % – 69 %,
"F" refers to percentages below 60 %.

Questions about yourself

DE13

Overall, what **math grades** did you receive during high school?

If your were scored on a different scoring system, please check the table to see how your score translates.

- ☐ Mostly As
- ☐ About half As and half Bs
- ☐ Mostly Bs
- ☐ About half Bs and half Cs
- ☐ Mostly Cs
- ☐ About half Cs and half Ds
- ☐ Mostly Ds
- ☐ Mostly below Ds
- ☐ Other, please sepcify:

Grade	A	B	C	D	F
Percentage	≥ 90 %	≥ 80 %	≥ 70 %	≥ 60 %	< 60 %
Point equivalents / GAD	4.0	3.0	2.0	1.0	0

* "A" refers to percentages of (including) 90 % and above,
"B" refers to percentages of(including) 80 % – 89 %,
"C" refers to percentages of (including) 70 % – 79 %,
"D" refers to percentages of(including) 60 % – 69 %,
"F" refers to percentages below 60 %.

DE02 

Questions about yourself

Are you a student?

- ☐ No
☐ Yes

4 Active Filter(s)

Filter DE02/F1

If any of the following options is selected: 2

Then display question/text DE03 placed later in the questionnaire (otherwise hide)

Filter DE02/F2

If any of the following options is selected: 1

Then display question/text DE05 placed later in the questionnaire (otherwise hide)

Filter DE02/F3

If any of the following options is selected: 1

Then display question/text DE06 placed later in the questionnaire (otherwise hide)

Filter DE02/F4

If any of the following options is selected: 1

Then hide question/text DE04 placed later in the questionnaire

DE03 

Questions about yourself

Are you studying psychology?

- ☐ No
☐ Yes

2 Active Filter(s)

Filter DE03/F1

If any of the following options is selected: 1

Then display question/text DE04 placed later in the questionnaire (otherwise hide)

Filter DE03/F2

If any of the following options is selected: 1

Then display question/text DE05 placed later in the questionnaire (otherwise hide)

DE04 

Questions about yourself

Which subject are you studying?

Questions about yourself

DE05 

Have you studied psychology?

- ☐ No
☐ Yes

What do you do for a living?

DE06 

Questions about yourself

DE07 

What is your mother tongue?

- ☐ English
☐ Other, namely:

What gender do you identify as?

DE08 

You can learn more about each category by hovering your mouse over it.

- ☐ Cis female
☐ Cis male
☐ Trans* woman
☐ Trans* man
☐ Nonbinary
☐ Another one, namely:
☐ Prefer not to answer

Thank you for your time!

PHP code

```
if (value('UR01_RV3') == "guess") {
    replace('%inst%', 'to take an educated guess.');
```

```
} else {
    replace('%inst%', 'to only select an answer when you were fully confident of your choice.');
```

```
}
```

```
question('DA01');
```

question('DA01')

DA01 

The aim of the study is to determine whether and how people's decisions differ based on the task instructions they receive. Specifically, it examines the differences between being instructed to only select an answer when fully confident in one's choice versus being instructed to take an educated guess. The instructions for each participant were randomly assigned. In your case, you were assigned \Rightarrow inst \Leftarrow

The data will be collected and published in anonymized form. No conclusions about specific individuals can be drawn from this information. The data will be made publicly available and may be used by others for further research. The data will be stored for a minimum of 10 years in accordance with the guidelines of the German Research Foundation. Do you agree to this?

As a reminder: By giving your consent, you are helping to ensure the success of this and other studies. However, compensation is independent of whether you agree to data storage or not.

- ☐ Yes: I agree to my data being stored.
- ☐ No: I would like my data to be deleted.

Thank you for your time!

DA02

You have now reached the end of the study.

As per your request, we will delete your data.

You will receive 9.00 GBP for your complete participation.

Please click on "Continue" at the bottom right to be redirected to Prolific.

DA03

Thank you for your time!

You have now reached the end of the study.

Thank you for agreeing to data storage.

You will receive 9.00 GBP for your complete participation.

Please click on "Continue" at the bottom right to be redirected to Prolific.

PHP code

```
redirect('https://app.prolific.com/submissions/complete?cc=C1BSS9X2', false);
```

Thank you for completing this questionnaire!

We would like to thank you very much for helping us.

Your answers were submitted, you may close the browser window or tab now.

Julia V. Liss, M.Sc., Kiel University – 2024