

Study S2b

2(broken streak or miss) between subjects

Instructions:

For the second part of this session, you will be playing word and/or number games, much like you might do for fun on an app.

You do not need to get the game correct to continue; just try your best.

In the next few pages, we will explain how to play the games. Then, you will be able to start!

Please enter your student ID here:

Page Break

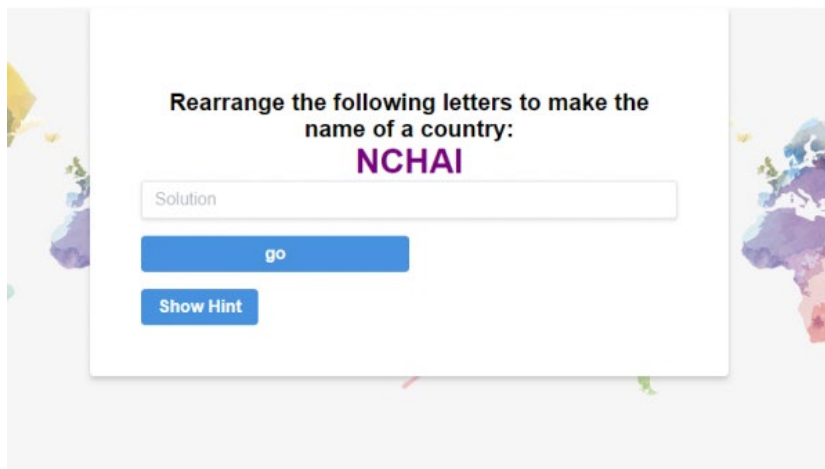
You will be testing out one or two different games today.

One game you may play is **WORD JUMBLE**, a game where you have to unscramble a series of letters to create a word.

Another game you may play is **NUMBER SUMS**, a game where you have to find the two numbers in a box that add up to a given total.

Page Break

Below is an example screenshot from WORD JUMBLE:



To complete the jumble, you would put your answer (CHINA) into the 'solution' textbox and hit 'go.'

If you get stuck, you can click 'Show Hint' to see what letter the word starts with!

Page Break

Below is an example screenshot from NUMBER SUMS:

93	19	156
131	87	110
113	140	121

To solve the sum, you would put your answer ($87 + 113$) into the 'solution' textbox and hit 'go.'

If you get stuck, you can click 'Show Hint' to see what columns or rows the numbers are located in!

Page Break

You've been assigned to start with NUMBER SUMS!

Sums will be counted towards your **game tracker** as long as you have seen them; in other words, **they count even if you don't answer the sum correctly.**

For example, once you attempt one sum, your game tracker will look like this:

Sums attempted: 1



Only sums (and not jumbles) will be counted towards your game tracker.

Page Break

We are testing these games for an app, so sometimes we may already have had enough people complete the game you are about to play. If that is the case, you will see a message like the one below:

Unfortunately, we have reached the quota of players for this game.

This message is not a sign that you have messed up or that the app is broken.

If you see such a message, you will be able to move on to a new game after a few seconds. You will only see this type of message once (if at all).

Page Break

The following questions are to make sure you understand how the game works. Please answer if the statements are true or false.

Below is an example game tracker:

Sums attempted: 1



If you answer a sum **incorrectly**, it still is added to your game tracker.

- ☐ True (1)
- ☐ False (2)

If you answer a jumble from the word jumble game, it will added to your game tracker.

- ☐ True (1)
- ☐ False (2)

If you see a message about reaching a quota of players for a given game, it means you or the app have messed up in some way.

- ☐ True (5)
- ☐ False (6)

Your first games will be from the number sums game, but you may also play games from the **word jumble** game.

- ☐ True (1)
- ☐ False (2)

Stimuli:

Sums attempted: 0

Find the two numbers in the boxes below that sum to 200:

45	3	33
10	91	155
170	88	127


Solution

go

Show Hint

Page Break

Sums attempted: 1



The answer was **45 and 155**.

Press the arrow to go on to the next game!

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Page Break

The broken streak condition completed the following two games, while the no streak condition did not:

Sums attempted: 1

✓

Find the two numbers in the boxes below that sum to 200:

186	80	120
102	17	98
28	114	8

Solution

go

Show Hint

Page Break

Sums attempted: 2

✓ ✓

The answer was **102 and 98**.

Press the arrow to go on to the next game!

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Page Break

Sums attempted: 2



Find the two numbers in the boxes below that sum to 200:

18	80	135
10	99	140
128	72	191

go

Show Hint

Page Break

Sums attempted: 3



The answer was **128 and 72**.

Press the arrow to go on to the next game!

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Page Break

All participants saw:

Unfortunately, we have reached the quota of players for this number sum.

Page Break

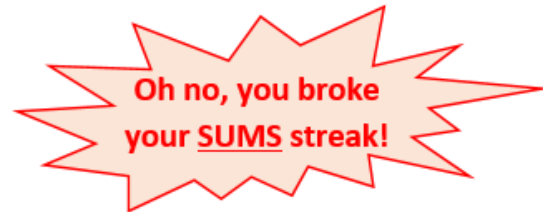
No streak condition:

Sums attempted: 1



Broken streak condition:

Sums attempted: 3

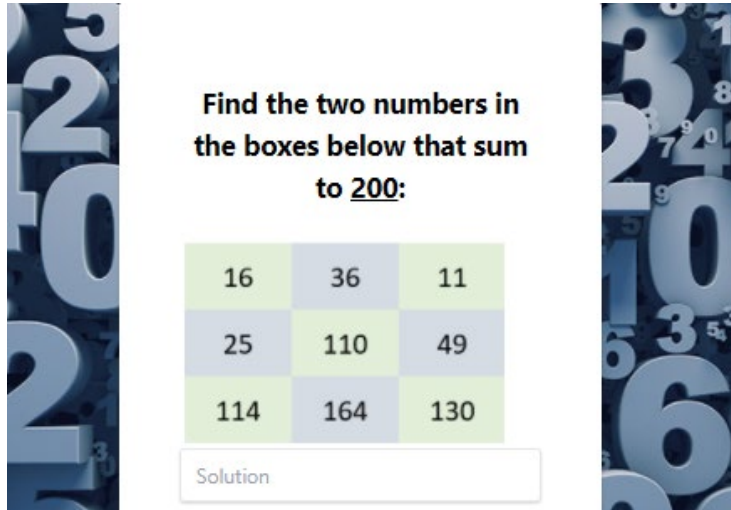


Press the arrow to select your next game.

At the end of the study, based on DV choice:

Display This Question:

If DV2 = same



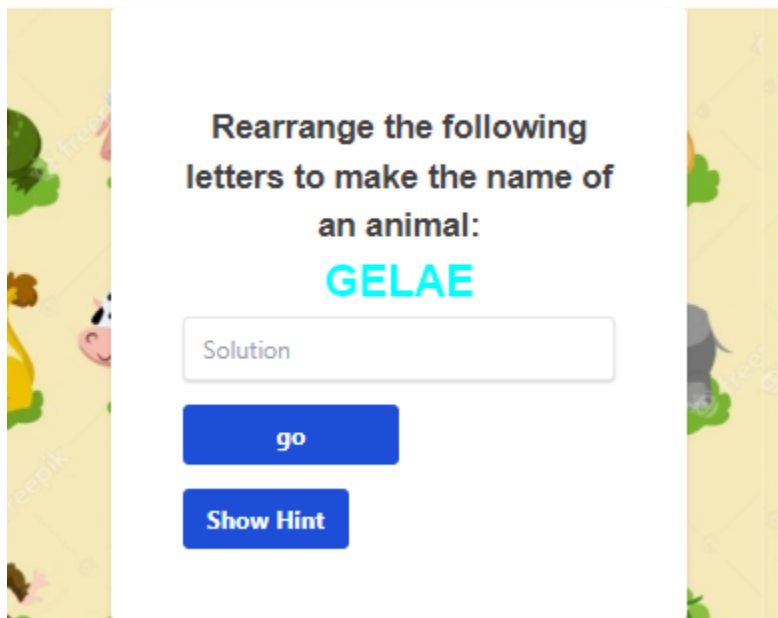
Find the two numbers in the boxes below that sum to 200:

16	36	11
25	110	49
114	164	130

Solution

Display This Question:

If DV2 = different



Rearrange the following letters to make the name of an animal:

GELAE

Solution

go

Show Hint

The answer was **36 and 164 / Eagle**.
You've finished all available games!

Questions:

Main DV:

Note that at the top of the screen for the Main DV, participants saw an image of their tracker (which varied by condition)

If you stick with NUMBER SUMS, you will have another check mark on your game tracker.

If you switch to WORD JUMBLE, you will have another X on your game tracker.

Please select what you would like to play for your next game:

Number Sum (1) or Word Jumble (0).

Instructions before measures:

Before you play your next game, please answer the following questions about how you felt **when you made this game choice**.

Sense of accomplishment measures:

How much did you feel that you accomplished something? [1 Not at all, 11 A great deal]

How much did you feel like you had achieved something? [1 Not at all, 11 A great deal]

How proud did you feel? [1 Not at all, 11 A great deal]

How successful did you feel? [1 Extremely unsuccessful, 11 Extremely successful]

How effective did you feel? [1 Extremely ineffective, 11 Extreme effective]

How motivated did you feel to continue completing language learning questions? [1 Not at all, 11 A great deal]

How determined were you to continue completing language learning questions? [1 Not at all, 11 Extremely]

How much did your past behavior push you to stick with completing language learning questions for the rest of this study? [1 Not at all, 11 A great deal]

How much did you feel driven to continue completing language learning questions? [1 Not at all, 11 Extremely]

How much did you feel compelled to continue completing language learning questions? [1 Not at all, 11 Extremely]

Manipulation check:

How many number sum games have you played so far in this study? (One, Three, Five)

Demographics:

What is your gender? [Male (1), Female (2), Prefer not to say (3)]

What is your age? [numeric free response]