

# Study 6

3(intact logged streak, self-attributed broken streak, externally-attributed broken streak)  
between subjects conditions

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To ensure you are a real person paying attention, please write the answer to this math problem using one written word:

one plus one equals \_\_\_\_\_

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[Participants who did not write 'two' or were not using Chrome/Firefox were unable to complete the study]

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## ***Instructions:***

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

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

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

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Below is an example screenshot from WORD JUMBLE:

Rearrange the following letters to make the name of a country:

**NCHAI**

Solution

go

Show Hint

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!

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Below is an example screenshot from NUMBER SUMS:

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

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!

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You've been assigned to start by playing NUMBER SUMS. You might have the option to play a Word Jumble later.

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*Display This Question:*

*If condition = streak*

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.**

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*Display This Question:*

*If condition != streak*

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

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

**Sums attempted: 1**



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

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You will have a limited amount of time to solve each puzzle in the Number Sums game!

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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).

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

[Participants had to correctly answer the following questions to proceed]

Below is an example game tracker:

**Sums attempted: 1**



If you answer a sum **incorrectly** or do not provide an answer it time, it still is added to your game tracker.

☐ True (1)

☐ False (2)

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

☐ True (1)

☐ False (2)

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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)

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

☐ True (1)

☐ False (2)

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You will play **five games** in this study.

☐ True (1)

☐ False (2)

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**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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**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**, or **80 and 120**.

Press the arrow to go on to the next game!

**>>**

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

Solution

go

Show Hint

Page Break

Sums attempted: 3

✓ ✓ ✓

Congrats, you have a streak!

The answer was 128 and 72.

Press the arrow to go on to the next game!

Page Break



*Intact streak and self-attributed broken streak conditions:*

**Sums attempted: 3**

✓ ✓ ✓

**Congrats, you have a streak!**

**Find the two numbers in the boxes below that sum to 800:**

97	309	393	640	219
208	762	237	396	150
109	198	560	665	541
410	403	471	607	797
563	22	290	188	18

Solution

**go**

**Show Hint**

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*Display This Question:*

*If condition = intact*

**Sums attempted: 4**

✓ ✓ ✓ ✓

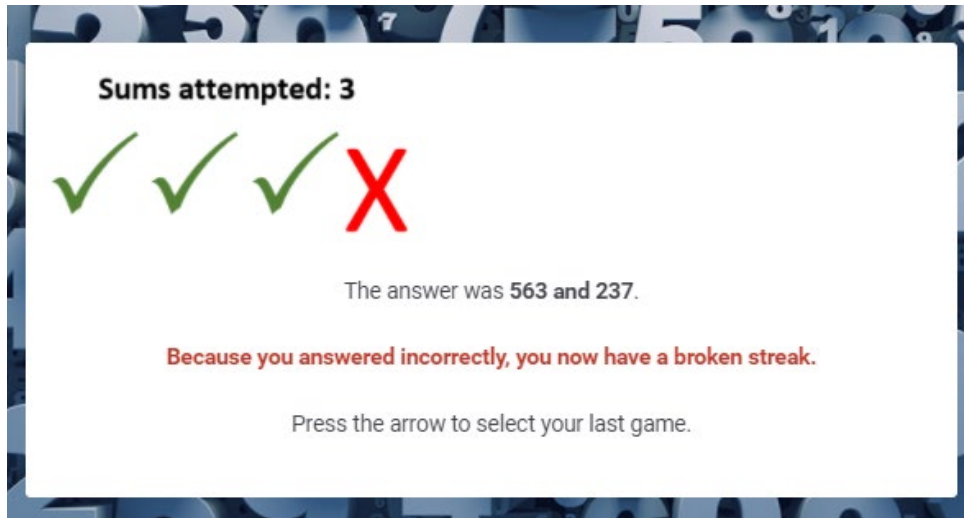
**Congrats, you have a streak!**

The answer was **563** and **237**.

Press the arrow to select your last game.

Display This Question:

If condition = break\_self

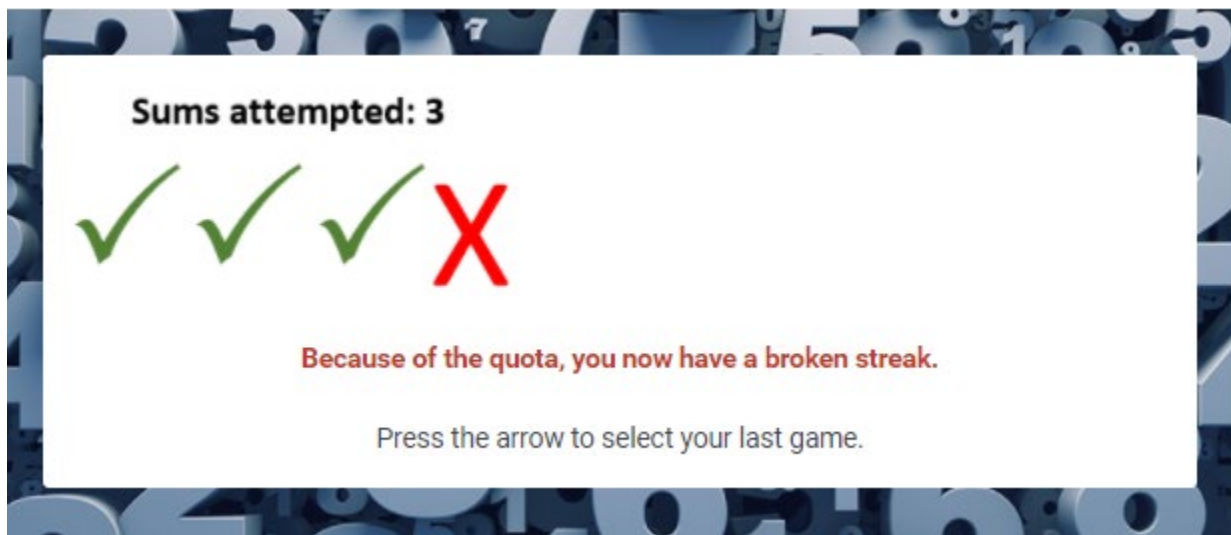


Externally-attributed broken streak condition:

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

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

Display This Question:

If Choice = sum

16	36	11
25	110	49
114	164	130

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

Display This Question:

If Choice = jumble

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

**GELAE**

The answer was **36 and 164**. / **Eagle**.

You've finished all available games! Please press the arrow button to continue.

**Questions:**

Main DV:

Display This Question:

If condition = streak

This is your current game tracker:

Sums attempted: 4



Display This Question:

If condition = break\_self

This is your current game tracker:

Sums attempted: 3



Display This Question:

If condition = break\_other

This is your current game tracker:

Sums attempted: 3



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

- ☐ WORD JUMBLES (1)
- ☐ NUMBER SUMS (2)

*Additional behavioral measures:*

*Display This Question:*

*If condition != streak*

Imagine that you were to continue using this game app in your day-to-day life. Would you be willing to watch a short ad to repair your broken streak in your tracker? [Yes/No]

*Display This Question:*

*If condition = streak*

Imagine that you were to continue using this game app in your day-to-day life. Would you be willing to watch a short ad to maintain your streak in your tracker (i.e., prevent it from breaking if you happened to switch to a different activity)? [Yes/No]

How likely would you be to recommend this game app to a friend? [1 Extremely unlikely, 11 Extremely likely]

How likely would you be to use this game app in the future? [1 Extremely unlikely, 11 Extremely likely]

*Break attribution manipulation check:*

*Display This Question:*

*If condition != streak*

How would you describe what caused your broken streak on the app's question tracker? [1: It was completely caused by something outside of my control, 11: It was completely caused by my own actions]

*Demographics:*

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

What is your age? [numeric free response]

Please write any comments or feedback regarding this survey below. [free response]