Instructions (1 of 3):

In this section of the study, you will be shown images like the ones below for 1 second. Your task is to remember the order of the images. Then you will be asked to recall the order of the images.

For example, you might see:

After seeing the sequence of images, you will be shown a grid of items like the one below. Your task is to click on the images that you saw in the correct order.

Try this now. Click on the car and then the hat.

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.

Practice:

Now you will be shown the images one at a time for 1 second. You must remember the order of the images. When the images are on the screen there will not be a next button. The page will automatically progress to the next screen after 1 second. Click the next button to begin the practice.

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.

Did you click on the hat and then the car in the correct order?

○ Yes

○ No

○ Unsure

Great let's do one more practice. Click the next button to begin.

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.

Instructions

In addition to remembering the sequence of images, you will do a simple math problem. After each image, you will see a math problem for 5 seconds. The page will automatically progress after 5 seconds, and the next button will not be visible. Then you will be asked a True or False question about the math problem.

Click next to practice the math problems.

$$(1*2) + 1$$

The answer is 3

○ True
○ False

$$2+4-3$$

The answer is 4

○ True
○ False

Instructions (3 of 3):
Now let's practice remembering the items and doing the math problems at the same time. We will measure your accuracy and speed

for both the math problems and item recall, so it is **important to do both as quickly and accurately as possible**.

Click the next button to start the practice.

$$(4*1) + 2$$

The answer is 5

○ True
○ False

Recall:
Click on the items in the correct order. You can not re-click to change your judgment.

Did you click on the car and then the shoe in the correct order?

○ Yes

○ No

○ Unsure

Good work. We'll do one more practice then begin the study. Please do not write down the information in this section of the study. We are interested to know how you do the task in your mind.

Click the next button to do one more practice.

7+1-3

The answer is 5

○ True
○ False

1+(2*2)

The answer is 5

○ True
○ False

Recall:
Click on the items in the correct order. You can not re-click to change your judgment.

Practice complete:

In the experiment, the number of items and math problems will vary. This section will take about 10 mins to complete. Please complete this section without stopping. Remember to complete the task as quickly and accurately as possible.

When you are ready to begin the experiment click the next button.

4-SPAN (title not shown to participants)

(3*2) + 1

The answer is 7

- O True
- O False

3 – 1 + 2

The answer is 5

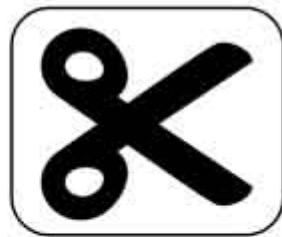- O True
- O False

3-(1*2)

The answer is 3

○ True

○ False

$$3+(3*2)$$

The answer is 8

○ True

○ False

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.

4-SPAN (title not shown to participants)

$$(9/1)-4$$

The answer is 4

○ True
○ False

(1*2)+1

The answer is 3

○ True
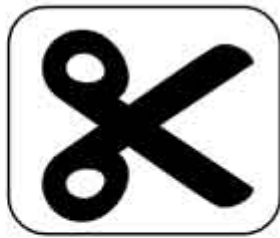○ False

(8+1)/3

The answer is 2

○ True
○ False

3+(1/1)

The answer is 4

○ True

○ False

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.

(9−1)/4

The answer is 4

○ True

○ False

5+(3/3)

The answer is 6

○ True

○ False

4-(2*2)

The answer is 0

○ True
○ False

★

(2/1)+2

The answer is 4

○ True
○ False

☂

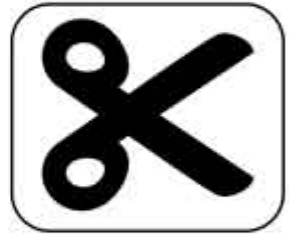**(3+1)-2**

The answer is 2

○ True

○ False

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.

5-SPAN (title not shown to participants)

3-(2-1)

The answer is 2

○ True
○ False

(3*1)-2

The answer is 2

○ True
○ False

(6/3) + 3

The answer is 5

○ True

○ False

6-(3*2)

The answer is 1

○ True

○ False

3+1-4

The answer is 3

○ True

○ False

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.

6-SPAN (title not shown to participants)

(2*3)–2

The answer is 3

◯ True
◯ False

★

(6/2)-3

The answer is 1

◯ True
◯ False

🏠

(1*7)-1

The answer is 6

◯ True
◯ False

7+2-3

The answer is 4
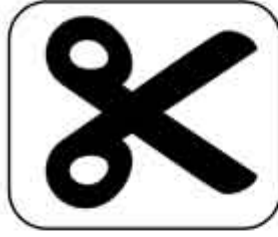
○ True
○ False

(4/2)+3

The answer is 5

○ True
○ False

(3/3)-1

The answer is 0

○ True
○ False

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.

5-SPAN (title not shown to participants)

$$1+(2*3)$$

The answer is 7

○ True

○ False

(3*2)-5

The answer is 1

○ True

○ False

3+2-5

The answer is 0

○ True

○ False

(8/2)+1

The answer is 6

○ True
○ False

(6-2)/2

The answer is 4

○ True
○ False

3/(1+2)

The answer is 3

○ True

○ False

Recall:

Click on the items in the correct order. You can not re-click to change your judgment.