1.

In this task, you will see black or white beads being drawn (pulled) from jars.

On each trial, a bead will be drawn from one of two jars. Once you see this bead, your goal is to predict the color of the **NEXT** bead.

Every time you correctly guess the color of the **NEXT** bead, you will get a point. The more points you get, the higher your bonus will be at the end of the experiment.

2.

There are two types of jars:

1. Jars filled with 80% white beads and 20% black beads.

2. Jars filled with 20% white beads and 80% black beads.

3.

Photo of 80/20 white jar

This is a jar filled with 80% white beads and 20% black beads.

4.

Photo of 80/20 black jar

This is a jar filled with 20% white beads and 80% black beads.

5.

Photo of subject choice portion of trial (w/ no center bead)

Here is an example of what you will see on each trial.

6.

The jar the beads are drawn from is NOT chosen randomly on each trial.

After each draw, there is a 90% chance that the next bead will be drawn from the same jar and a 10% chance that the next bead will be drawn from the other jar.

7.

We will now show some examples of a bead being drawn from the jars. The bead will appear in the middle of the screen, and the jar the bead came from will be indicated with a black rectangle.

8.

Photo of subject choice portion of trial w/ center bead and w/ rectangle around 80/20 black jar.

A black bead was drawn from the 80% black jar.

9.

Same photo, but with rectangle around 80/20 white jar and w/ white bead in center.

The jar being used switched.

Now, a white bead was drawn from the 80% white jar.

10.

Same photo as above, but now rectangle around 80/20 black jar.

The jar being used switched again.

However, a low-probability white bead was drawn from the 80% black jar.

11.

Since the jars have both black and white beads, the best strategy to predict the NEXT bead is to first guess which jar the current bead came from, then use the jar-switch probability to predict which jar will be used next.

12.

In summary, there is a 10% chance that the jar being used will switch between trials. In other words, the jar will almost always stay the same.

The jar on the left contains **80% black beads and 20% white beads.**

The jar on the right contains **20% black beads and 80% white beads.**

13.

You will now be given a 3 question quiz to make sure you understand the task.

14.

Your goal is to predict…?

[The color of the previous bead] [The color of the next bead] [The jar being selected]

15.

In the jar with mostly white beads, there are \_\_\_% white beads and \_\_\_% black beads?

[50%, 50%] [25%, 75%] [80%, 20%]

16.

The next jar a bead is drawn from is most likely…

[Same as previous jar] [Different than previous jar]

17.

**You will start with a practice block of 10 trials.**

Remember:

* The jar on the left contains **80% black beads and 20% white beads.**
* The jar on the right contains **20% black beads and 80% white beads.**
* There is a 10% chance that the jar being used will switch between trials

The best strategy to predict the **NEXT** bead is to predict the jar the next bead will come from.

18.