

# General setting of the experiment

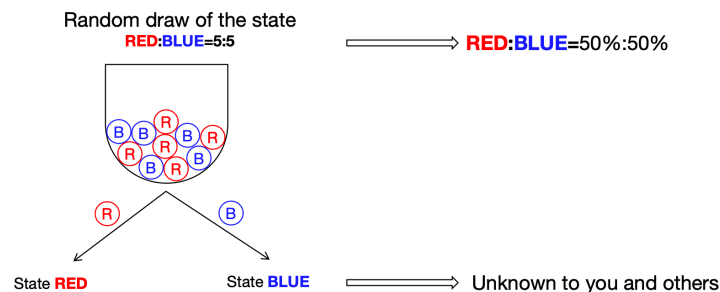
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The experiment consists of 4 separate blocks, each containing multiple independent rounds.

## State

**Each round** in this experiment begins with a random draw of a state from the two possible states: **RED** and **BLUE**. The chance that state **RED** will be chosen is **50%** and the chance that state **BLUE** will be chosen is also **50%**. This true state is unknown to you and others.

Below is a visual illustration of the process described above.

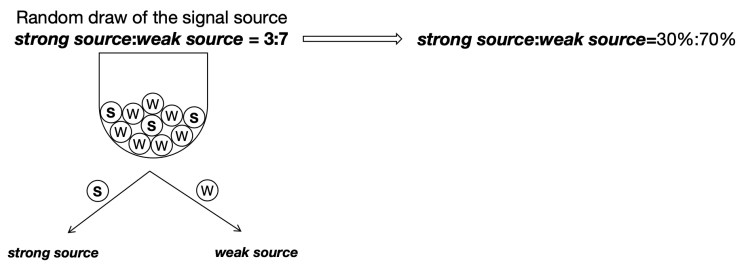


The main task in this experiment is to guess the true state (**RED** or **BLUE**) in each round using the available information, which is provided in the form of signals that can come from different sources.

## Signal Source and Signal

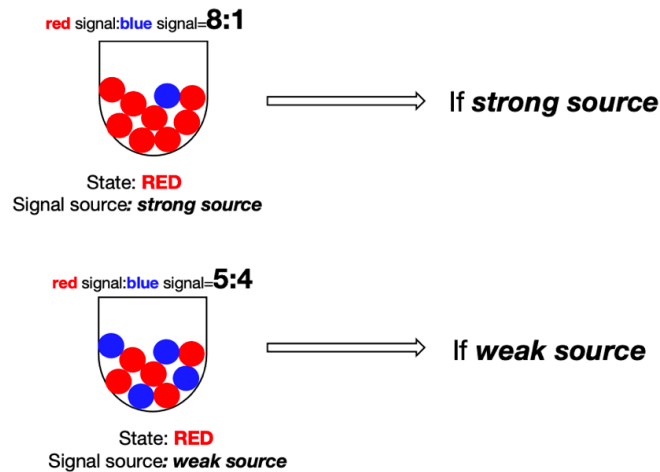
If the state is **RED**, the computer will first randomly determine the **signal source**—either a **strong source** or a **weak source**. The chance that a signal is from a **strong source** is **30%** and the chance that a signal is from a **weak source** is **70%**.

Below is a visual illustration of the process described above.

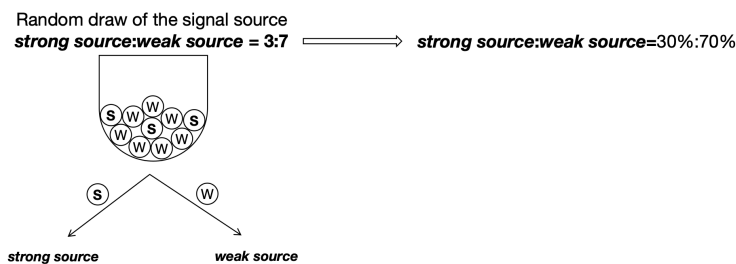


- If the signal source is a **strong source**, then it contains **8 red signals** and **1 blue signal**.
- If the signal source is a **weak source**, then it contains **5 red signals** and **4 blue signals**.

The computer will then randomly pick one signal from the selected signal source. Below is a visual illustration of the process described above.



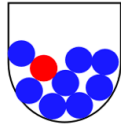
If the state is **BLUE**, the computer will first randomly determine the **signal source**—either a **strong source** or a **weak source**. The chance that a signal is from a **strong source** is **30%** and the chance that a signal is from a **weak source** is **70%**.



- If the signal source is a **strong source**, then it contains **8 blue signals** and **1 red signal**.
- If the signal source is a **weak source**, then it contains **5 blue signals** and **4 red signals**.

The computer will then randomly pick one signal from the selected signal source. Below is a visual illustration of the process described above.

blue signal:red signal=**8:1**

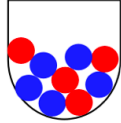


If ***strong source***

State: **BLUE**

Signal source: ***strong source***

blue signal:red signal=**5:4**



If ***weak source***

State: **BLUE**

Signal source: ***weak source***