**Sensory Discrimination**

Please help me to numerically, summarize the results and analyze the data. The data is Alice’s results of whether she knows the difference between Coca Cola from Pepsi. She claims she knows the difference. I hypothesized that she did not know the difference. I used 16 samples of cups of Soda. Eight had Coca Cola and 8 had Pepsi and asked her to taste two at a time: one taste of Coca Cola and one taste of Pepsi and then tell me which one is Coca Cola. I then recorded the outcome of his choices below. Complete the bottom table and:

1)Write the null hypothesis,

2)Decide on the type of test, One tail and Do calculations

3)Determine whether a binomial or normal theory is used to analyze your data?

4) complete chart below

**Data Analysis**

Alice had 3 SUCCESSES (Chose Coca Cola Correctly)

Alice had 5 FAILURES

|  |  |
| --- | --- |
| HO |  |
| HA |  |
| Distribution of test statistic (binomial or normal) |  |
| Alpha |  |
| Critical value of test statistic |  |
| Computed test statistic |  |
| P-level of test statistic |  |
| Decision about HO |  |