

P=+he prop. of correct hand identifications

Ho: P=.5 (she's guessing)

Ha: P>.5 (she can tell)

not biased

- ·Which hand Which hand $\frac{123}{280}(280) \ge 10$ $280(1-\frac{123}{800}) \ge 10$ chosen, so
- C) It makes sense that p-value > 5 because I was trying to pione that p>.5, but my B was less than .5!
- d) No -> never "accept" Ho However, I definitely DO NOT have any evidence against Ha, so I fail to reject Ho.
- e) I have no evil . that ther, touch is effective based on this experiment

$$\frac{18-10}{9} \quad \hat{p} = \frac{1783}{2613} = .6824$$
a)
$$.6824 \pm 3.29 \sqrt{\frac{.6824(1-.6824)}{2613}}$$

$$(.6524,.7123)$$

- b) Potentially response bias > people could have lied about voting (self-reported)
- c) no, .49 is not in my interval
- d) yes > people who would claim to have voted instead of actually voted.
- e). 49 is not in the 99.990 interval,
 therefore you would reject Ho: p=.49
 at the .001 level with a two-sided (*) test.

.0005+,999+.0005=

& Practice:

Interpret the interval:

I am 99.990 confident that the actual prop. Of Americans that would claim to have voted is between . 652 and .712.

Interpret the conf. level (99.9%):

If I took repeated samples of 2,613 Americans and created 99.990 conf. int. for each, in the long run, 99.990 of those intervals would capture the actual prop of all Amer. Who would claim to have voted.