

1. CLAIM: GREATER THAN .36 ^{">"} $n=200$
 $H_0: P \leq .36$ $X=74$
 $H_1: P > .36$ $\alpha=.05$

P-VALUE: 1 PROPZTEST

$$P = .3841$$

CONC: ACCEPT H_0
 REJECT H_1
 REJECT CLAIM

2. CLAIM: SAME AS .74 ^{"="} $n=500$
 $H_0: P = .74$ $X=410$
 $H_1: P \neq .74$ $\alpha=.10$

P-VALUE: 1 PROPZTEST

$$P = 4.5 E - 5$$

$$P = .000045$$

CONC: REJECT H_0
 ACCEPT H_1
 REJECT CLAIM

3. CLAIM: DIFF FROM .50 ^{" \neq "} $n=400$
 $H_0: P = .50$ $X=190$
 $H_1: P \neq .50$ $\alpha=.01$

P-VALUE: 1-PROPZTEST

$$P = .3173$$

CONC: ACCEPT H_0
 REJECT H_1
 REJECT CLAIM

4. CLAIM: LOWER THAN .29 ^{"<"} $n=500$
 $H_0: P \geq .29$ $X=80$
 $H_1: P < .29$ $\alpha=.05$

P-VALUE: 1-PROPZTEST

$$P = 7.49 E - 11$$

$$P = .000000000749$$

CONC: REJECT H_0
 ACCEPT H_1
 ACCEPT CLAIM

NOTE: MAJORITY ($P > .50$)