**Untitled.notebook** February 24, 2015

## Mean or Proportion:

P=+ he prop. of first - time brides in u.s. that are younger than their gooms.

Ho: P= .5 1-la: P 7.5

100 = 153-5 = 60 14 bides' inthe sampled policy of the sampled policy of the bides' inthe sampled policy of the bides' into the bides' into

With a p-value of . 5485 this is NOT sign at .01 level. Fail to reject Ho.

There's not enough evid. to say The prop. of 1st time brides that are younger than their grooms differs from 50%.

4) M= The mean score on 15 stats test by all his students.

Ho:M=65 Ha:M>65

 $\bar{x} = 67$   $S_{x} = 3.1972$  N = 10 df: 9

65 G7 0= 3.1972  $t = \frac{67 - 65}{3.1972} = 1.98$  p(t > 1.98) = .0396

Cond. N = 30 or pop. is normal

between . 025 - 05 (on chart)

n=10 ≠30

data is from see

with a p-value of .0396, this is sign at the .05 level. Reject Ho. There is evid Ercc that the mean score is higher than 65.

· SRS from Pop. of interest · took sample of 10 Stats Studenta (pop.) · assume it was random Untitled.notebook February 24, 2015

JEF hadn't said pap. is normal:  $n=10 \neq 30$ Based on sample

graph, which

appears slewed

right It's not

safe to ayun's

pop. is normal:

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Reject I B Ho X = pomor: Pail & A reject B-

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Ho:M=65 Ha:M>65

Type I: Reject Ho/but Hoistrue
The evid. Shows the mean
Score is higher than 65,
but it isn't

Typeff: Fail + oreject Ho/but Ho was False

Not enough evid. to say

mean score is higher than 65

but it is.