Statement about population

To conduct Hypothesis Teeting we have y (tips:

- O step 1: Define Hypotheris
  - (Ho):
  - 2) Alternative Hypollets (Hylla)!

A principal at a certain school claims that the students in his school are above average intelligence. A random sample of thirty students IQ scores have a mean score of 112.5. Is there sufficient evidence to support the principal's claim? The mean population IQ is 100 with a standard deviation of 15.



Blood glucose levels for obese patients have a mean of 100 with a standard deviation of 15. A researcher thinks that a diet high in raw corn starch will have a positive or negative effect on blood glucose levels. A sample of 30 patients who have tried the raw corn starch diet have a mean glucose level of 140.

Test the hypothesis that the raw corn starch had an effect.

In []:

We want to test if it takes fewer than 45 minutes to teach a lesson plan. State the null and alternative hypotheses. Fill in the correct symbol ( =,  $\neq$ ,  $\geq$ , <,  $\leq$ , >) for the null and alternative hypotheses.

- H0: μ \_\_\_ 45
- Ha:µ \_\_\_ 45

On a state driver's test, about 40% pass the test on the first try. We want to test if more than 40% pass on the first try. Fill in the correct symbol (=,  $\neq$ ,  $\geq$ , <,  $\leq$ , >) for the null and alternative hypotheses.

- H0: p \_\_ 0.40
- Ha: p \_\_ 0.40

Errors in Hypothese Testing:

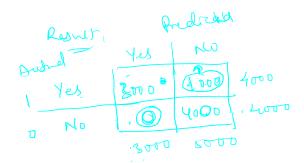
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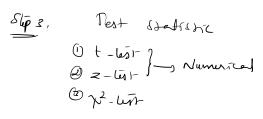
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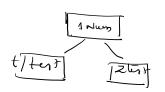
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when it is time (R)

Type-I. Auptires the Ho
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(1) N < 20

- () N>20
- 2) Unknown pipelation @ or uknown



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