Z-fest continued

one-Banple 2 test 3 -> last class

two-sample z-test -> 2 means compared to each other.

2-2 sample prop test

2 - 1 sample pop test.] -

2-Sample Z-fest:

· /

Mr., Mr. and we want to test which gives letter recovery time.

value: recovery time

Mi: Mi

M2: M2

Ho: M, = M2

Ha: M, 7 M2

1-sample 2-test Z = 2C - M

$$Z = \frac{(x_1 - x_2) - (M_1 - M_2)}{\sqrt{\frac{6_1^2}{n_1} + \frac{6_2^2}{n_2}}}$$

GC :

n= 90

-> assume the data to be normally distributed

-> sample sizes are sufficiently large (Size ≥ 30)

-> n, and no need not be sample

2-prop test:

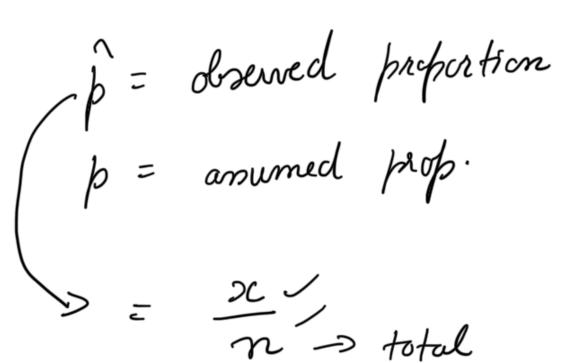
proportion of sales:

people buying

people visiting.

$$Z = \frac{\hat{p} - p}{\int p \left(1-p\right)}$$

rate?



COMMONTAL

old new

$$H_{\alpha}$$
: $b_1 \neq b_2$

$$Z = \frac{\beta_1 - \beta_2}{\int_{\beta} (1-\beta) \left(\frac{1}{n_1} + \frac{1}{n_2}\right)}$$

$$\hat{\beta} = \frac{x_1 + x_2}{n_1 + n_2}$$

$$b_1 = \frac{\chi_1}{\eta_1} \qquad b_2 = \frac{\chi_2}{\eta_2}$$