Dur hypothesis tests so fav.

HO: proportion = Val

Ho= mean = val

Proportion test

Sample Zfest 1 Sample t fest

use Binomulal
ov Norwal
(Z)

use Worm

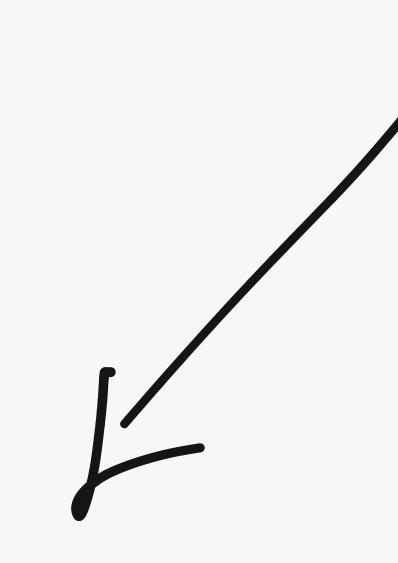
use the

Ho: Mean - Val

Ho: mean, - meanz=

Sample Paired t fest

2 sample t test Dur final hypothesis tests:



Auditative Duta

12 +est9

- Foodness of Fit Ho: model fits data
 - . Homogeneity

Tudependence
Ho: Variable 1
is independent
of variable 2

Formof TS: = S(Oi - Ec)

 $\frac{1}{i}\left(\frac{U_{i}-E_{c}}{F_{c}}\right)$

A: Cochrans Rule

No more than 20%

of categories have

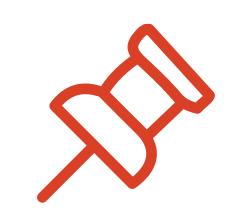
E < 5

Duantitative Data (Bivariate)

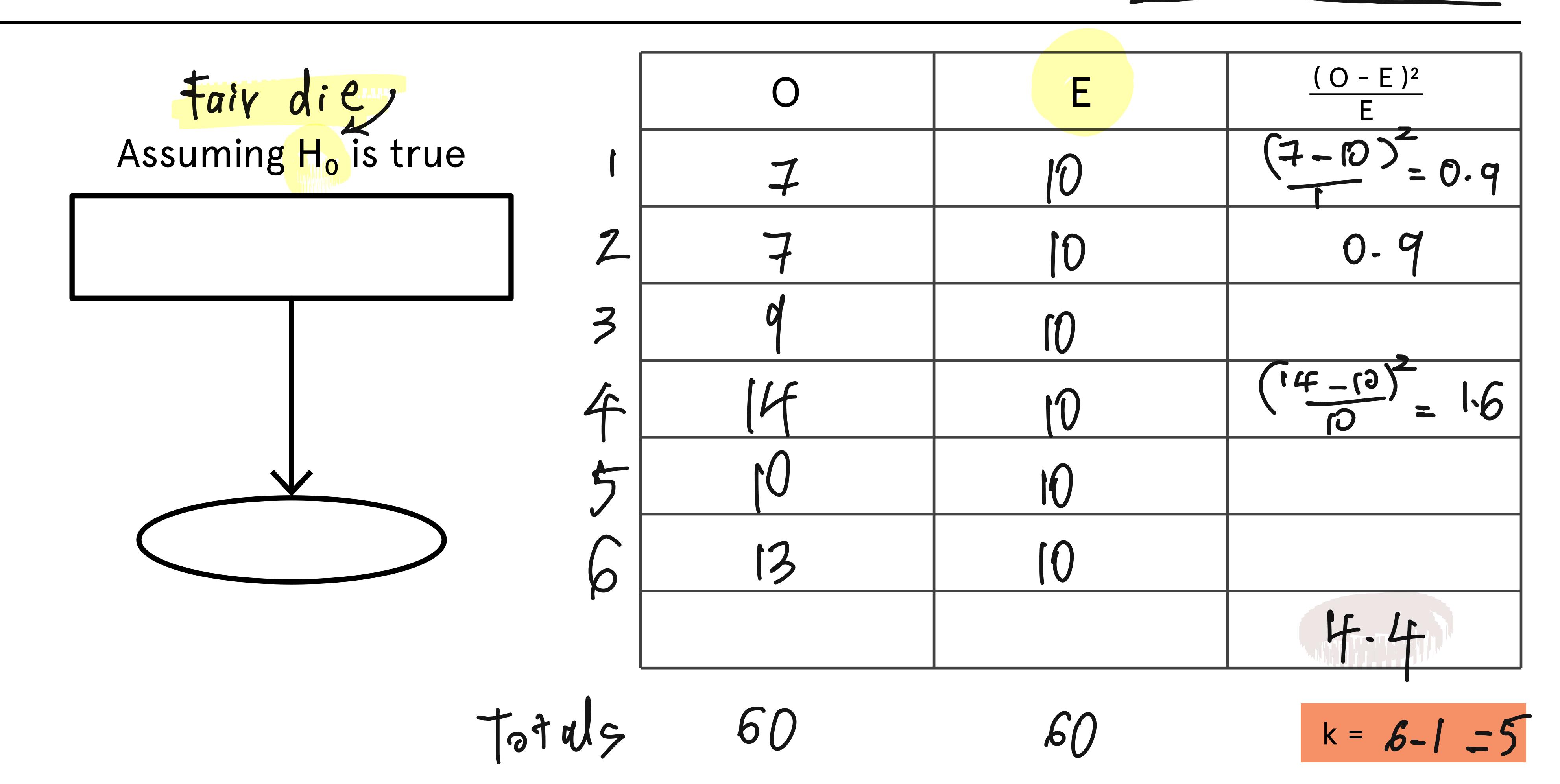
Regressian test

Ho: linear model does not fit data (sbpe=0)

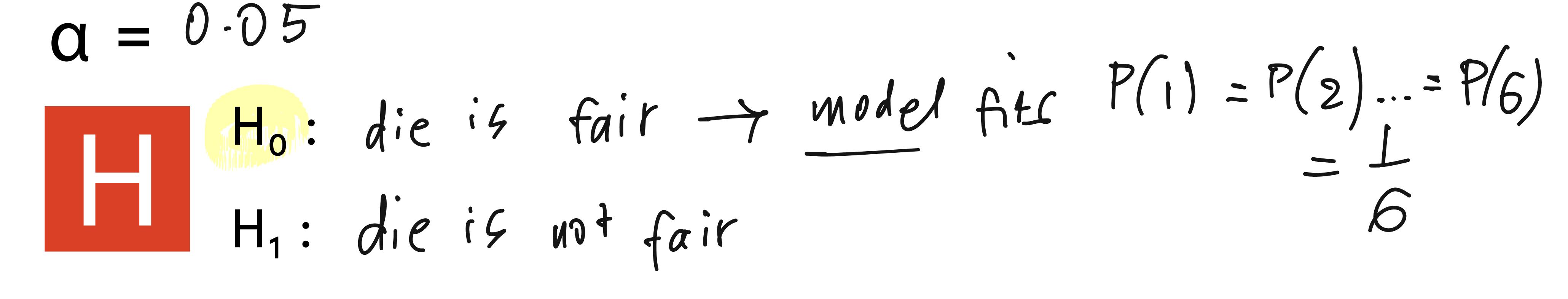
> Sample +test



Summary of Hypothesis Testing - Chi-square Test (Goodness of Fit)



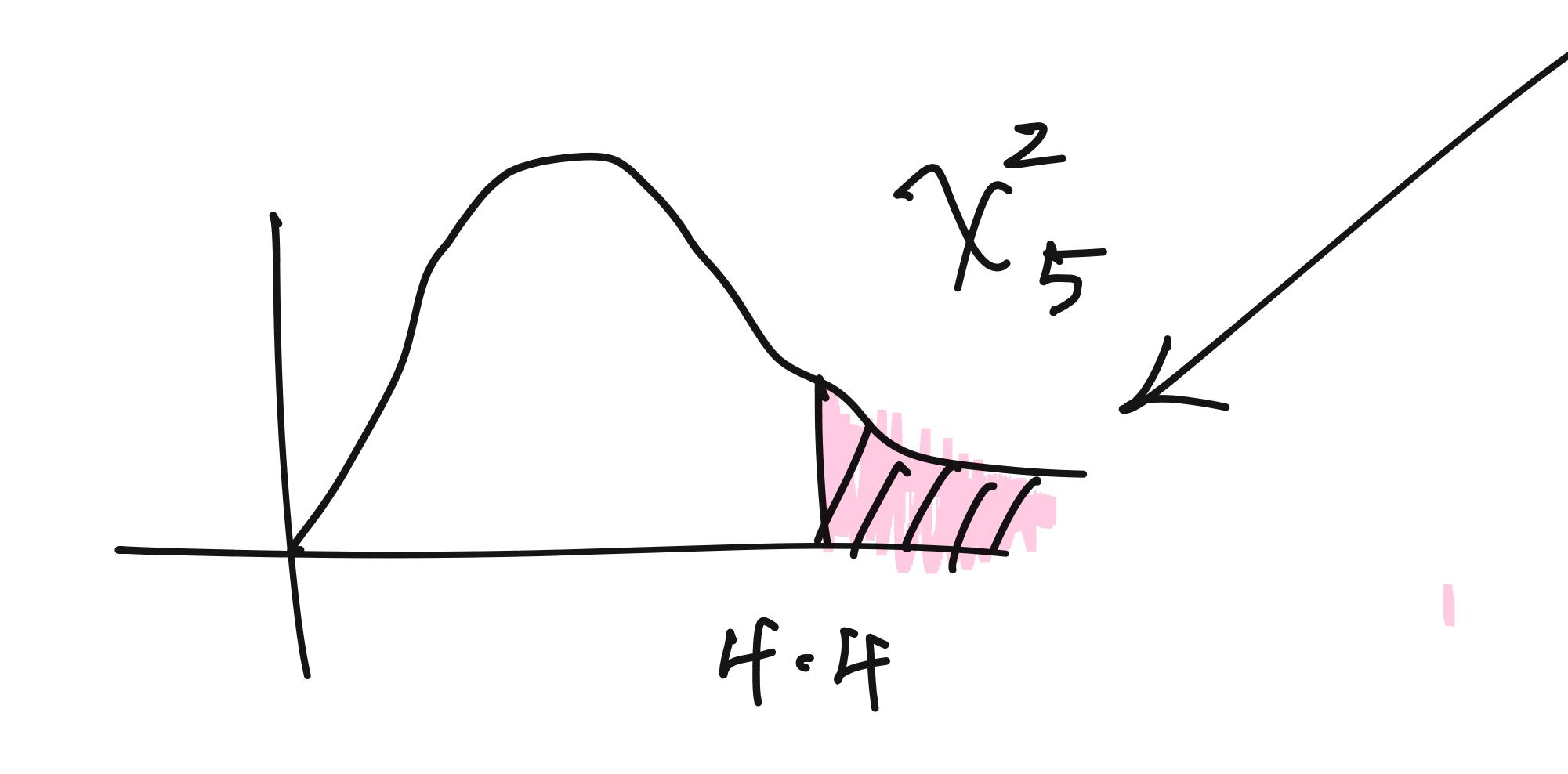
$$a = 0.05$$



Cochraas Pule

No more than 20% of categories have

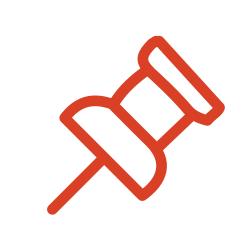




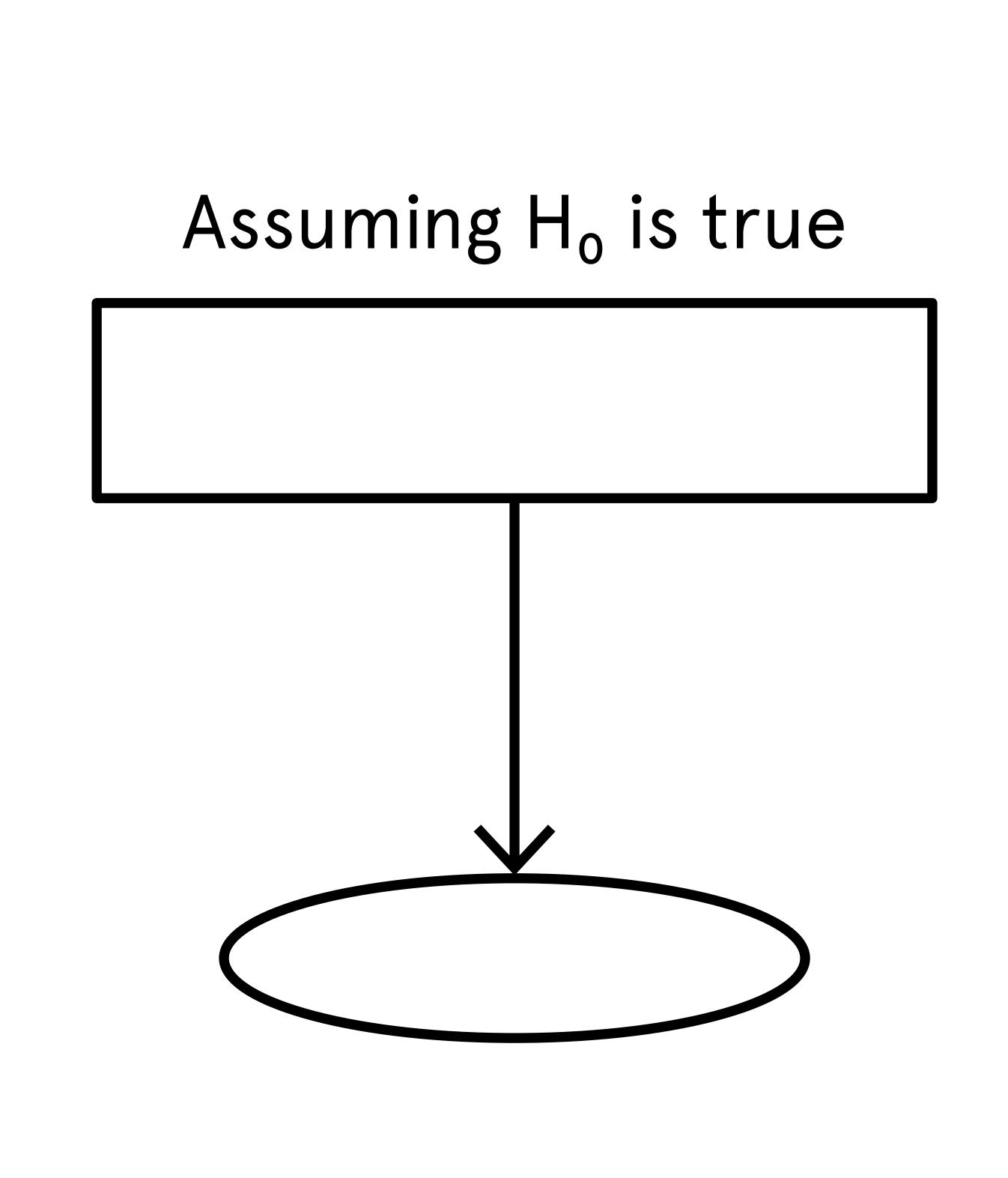
Retair Ho

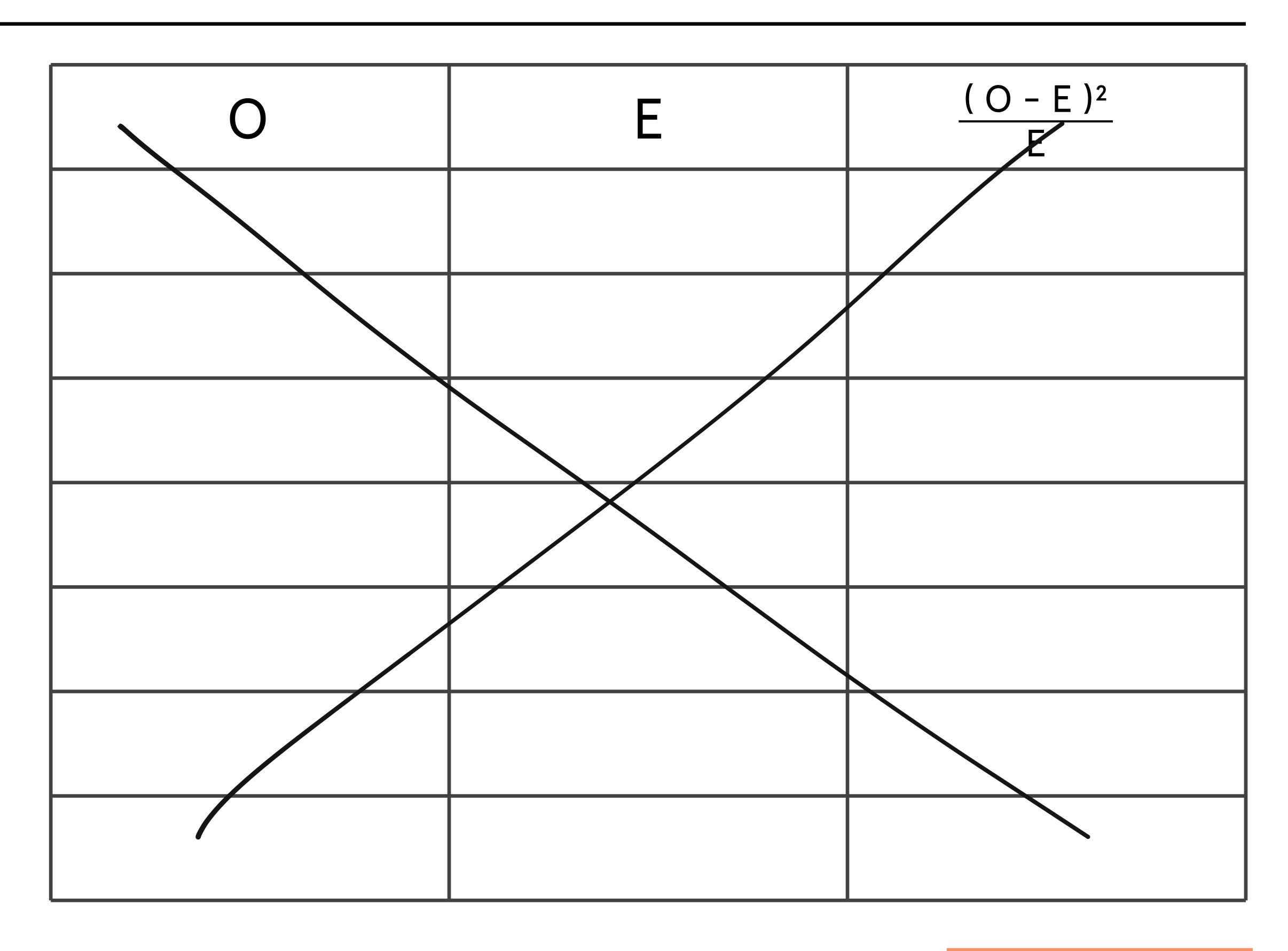
speedy way: chisq-fest p23





Summary of Hypothesis Testing - Chi-square Test (Goodness of Fit)



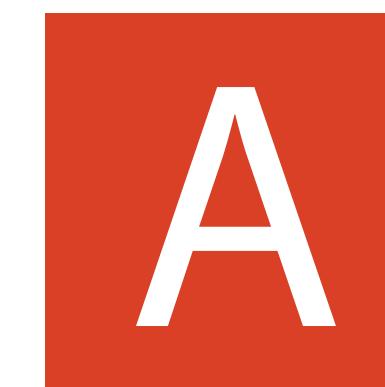


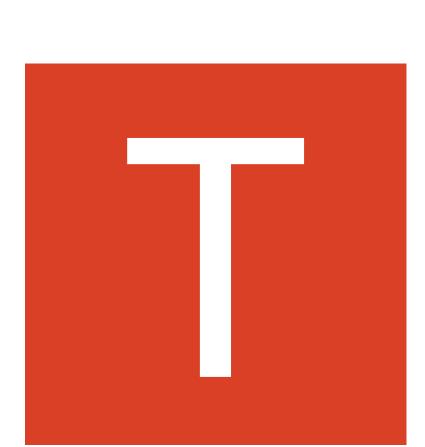
$$\alpha = 0.05$$



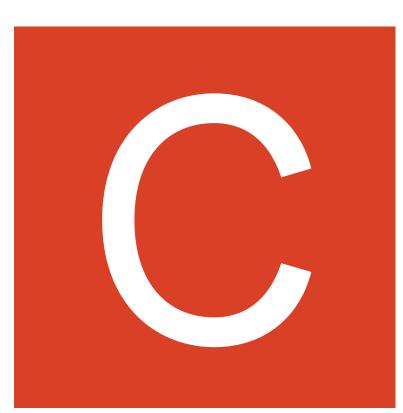
Ho: Sunking & Background are independent

Ho: unt





(2-r)×(2-r)



Retain Ho

Misg.fest p28,29

Retain
$$H_0$$

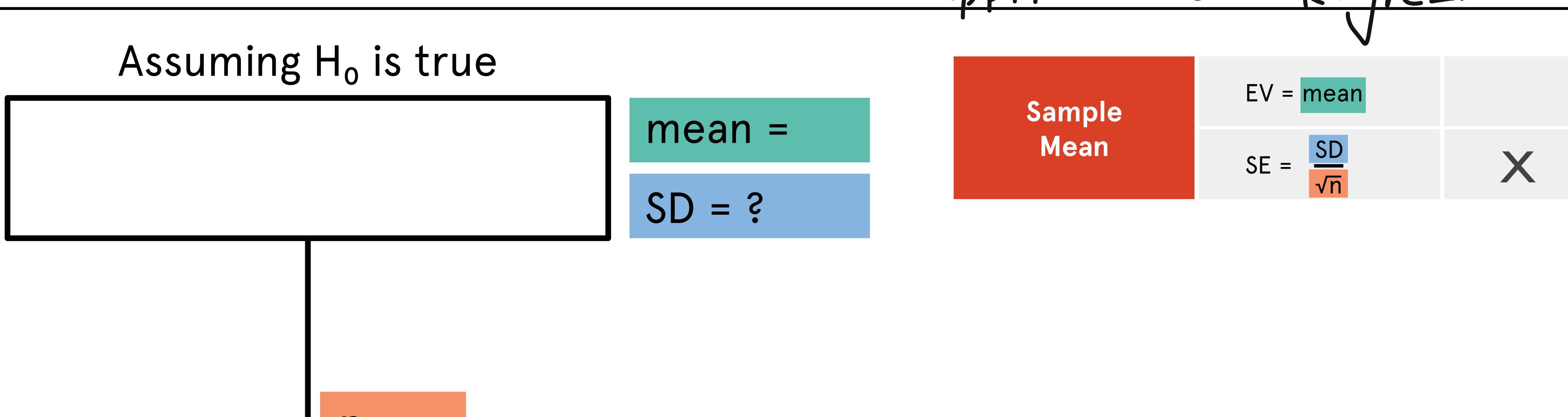
$$Q = 0.05$$
Reject H_0

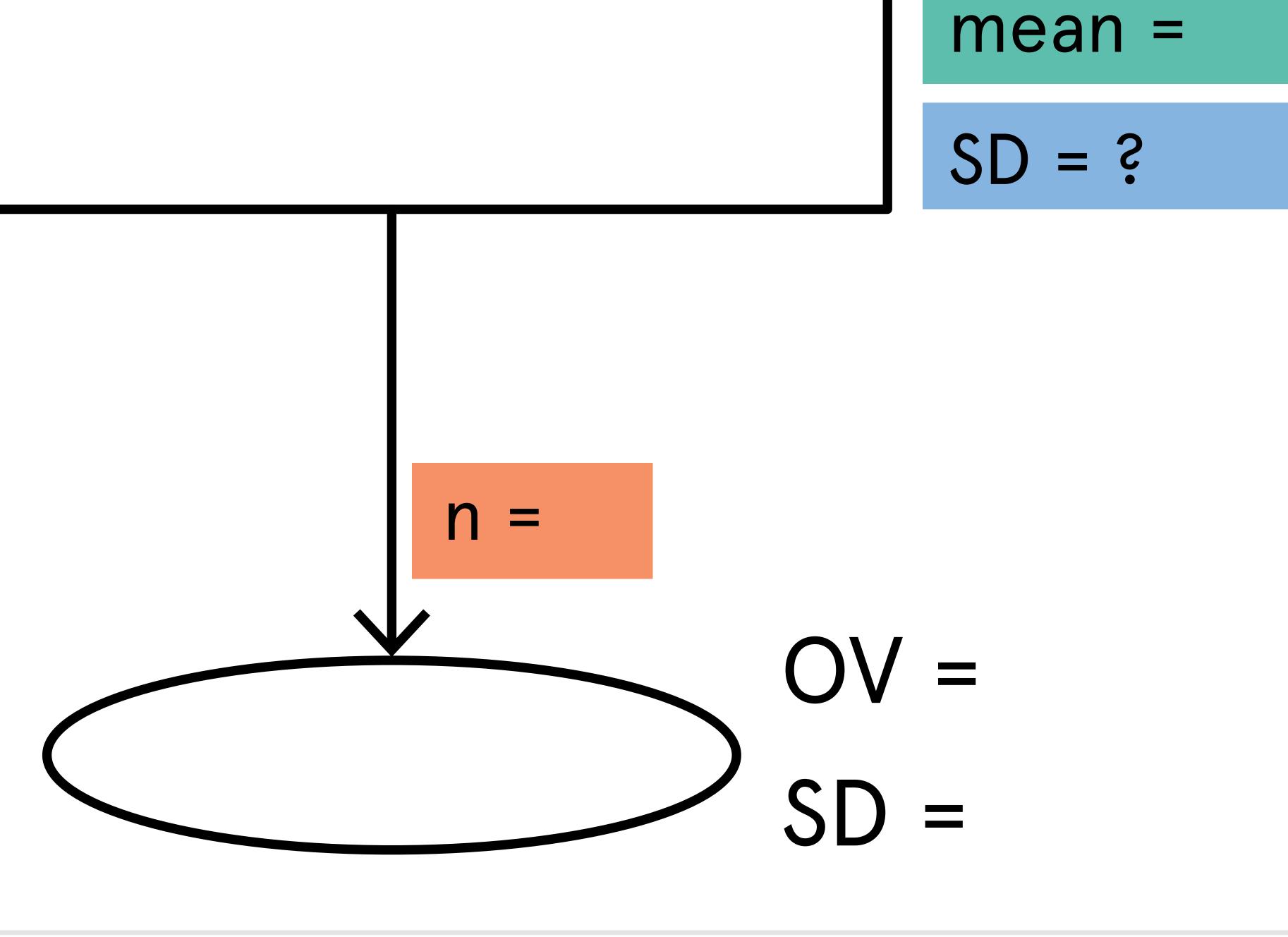


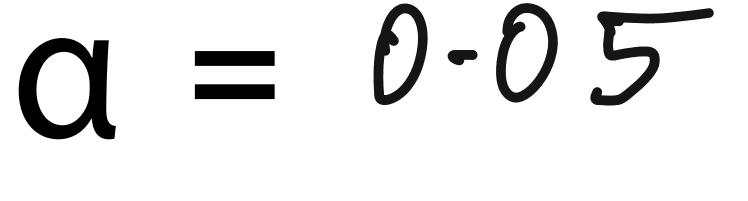
130, p1, 21 T



Summary of Hypothesis Testing - 1 Sample T Test applied to Regression







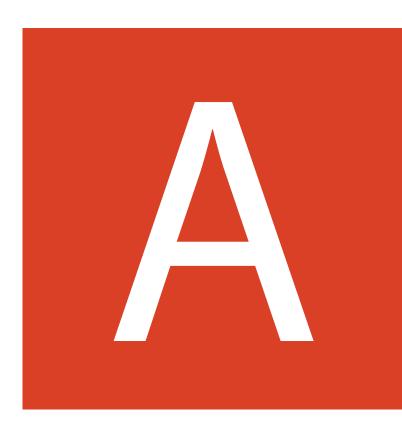
$$Q = 0.05$$

H₀: mean = $\beta = 0$

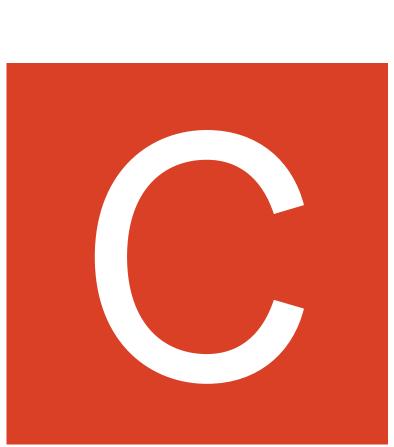
H₁: $\beta = 0$
 $\beta = 0$

No linear regression

 $\beta = 0$



$$TS = \frac{OV - EV}{SF} = -13.66$$



Reject Ho ->
data is consistent
with linear regression.

