ANOVA

[25 25 27 30 23 20] $\mu_{1} = 25$ μ_{0} : No difference [30 30 21 24 26 28] $\mu_{0} = 26.5$ $\mu_{1} = \mu_{2} = \mu_{3}$ Mc= 21 Ha: Atlens 1 is differen $\mu_1 \neq \mu_2 \neq \mu_3$

Step 1: Compute Individual gross muons. Step 2: Compute mans of mans of gross.

 $m = \mu_{A} + \mu_{B} + \mu_{C} = \frac{25 + 26.5 + 26}{3}$

[25 25 27 30 23 20] [30 30 21 24 26 28] [18 30 29 29 24 26] Step3: Compute variana blu groups. Mc= 21 SSB. Sum of squares between $\leq m_i \left(\mu - \bar{m}\right)^{-1}$ $= 6 \left(25 - 25.83 \right) + 6 \left(26.5 - 25.83 \right) + 6 \left(26 - 25.83 \right)^{2}$

Step 4: MSB

Mean Sum of Squared between großes

MSB = SSB = 3.501

DOFB

 $MSW = \frac{SSW}{10FW} = \frac{223.5}{15} = 14.9$

Mean of Som of Squared within ground.

a: [25 25 27 30 23 20]
$$\mu_{0}=25$$
b: [30 30 21 24 26 28] $\mu_{0}=26.5$
C: [18 30 29 29 24 26] $\mu_{0}=26.5$
Step 5: Compute Variance

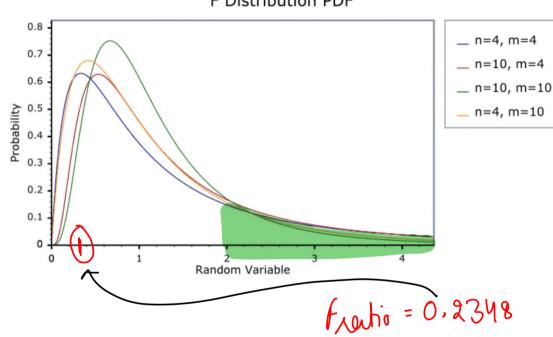
SSW: Som of Squad within grown

(25-25) + (25-25) + ---- (20-25) + 3 A (26-26)

(30-26.5) + (30-26) + ---- (28-26.5) + 3 B \rightarrow SSW

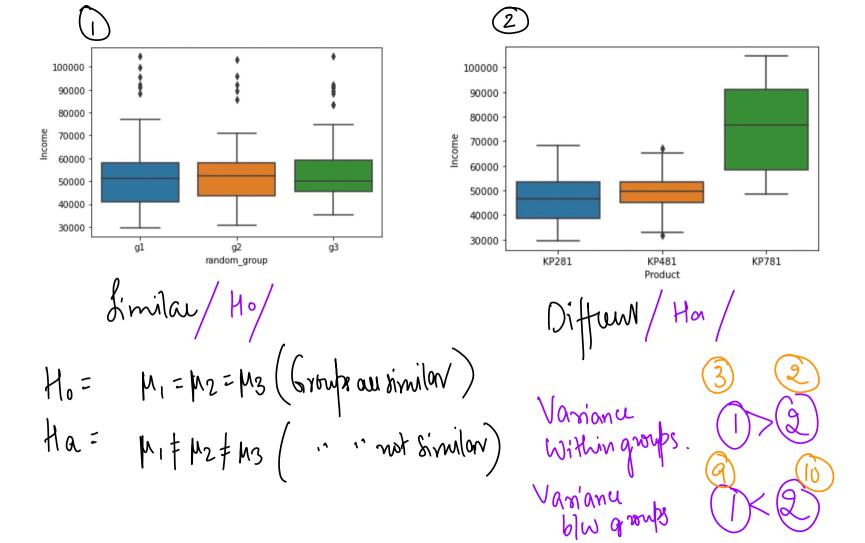
(18-26) + (30-26) + ---- (26-26) 3 C 223.5

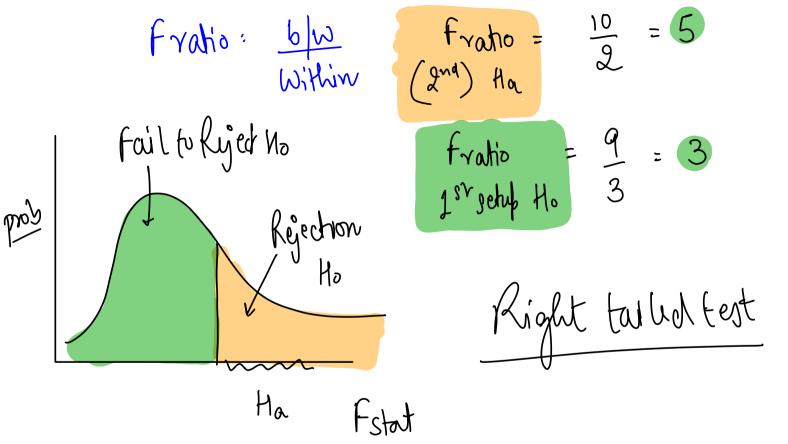
F Distribution PDF



Right tailed Test

Proble | - $f.cdf(0.2348, df_n = 2, dfd = 15)$ between within





ASSUMPTIONS Visualise (1) Dorton should be Graussian Wilkin Shapiro Test) (2) Independant. 3) Equal Variances among diff group. Levene Test If these and an not met / don't hald true

KRUSKAL'S TEST

near (lass)
(ravsnan - Test) - ECDES

(2) Gransnian - GQPbY

(3) Business Undustanding of ANONA J-1 Featur Engineering

