

DOF (Degree of Freedom)

Salary

40

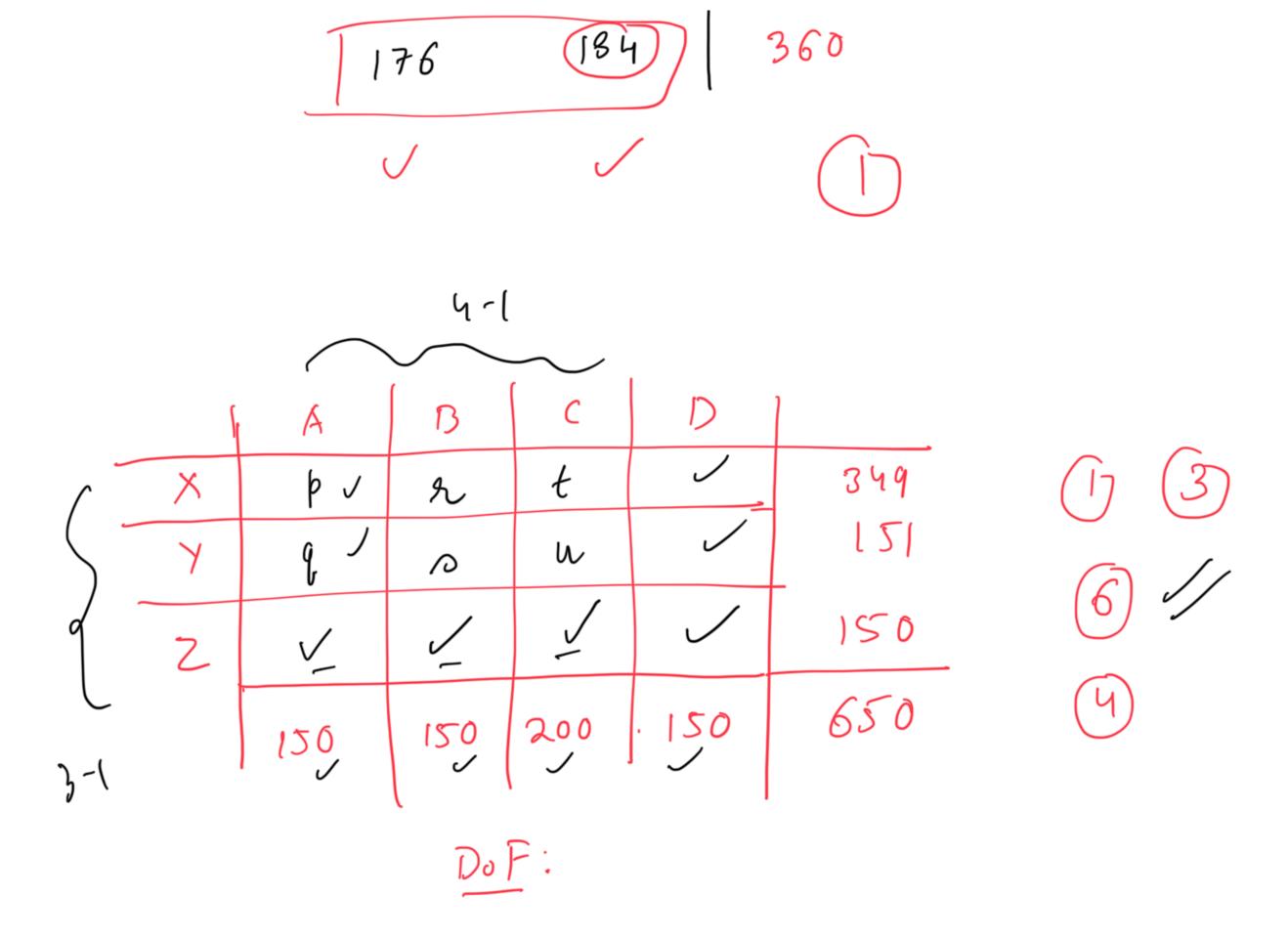
30

50

How many known salaries regulated to find the minsing salary values giver we known M salary.

lang = 40

 $\mathcal{D}$ of: (n-1)



/ı ~ ?

$$(3-1) \times (4-1)$$
 $(2-3) 4 = 6$ 

$$(n-1) \times (m-1)$$

Ho: fair coin

Ha: not a fair coin

contingency matrix cross-tal

Actual [28] [22] [50] (0-E)<sup>2</sup>

$$(0-E)^{2} \qquad 9 \qquad DoF$$

$$(3)^{2} + (3)^{2} (1)$$

$$0 + (3)^{2} (1)$$

$$0 + (3)^{2} (1)$$

$$-3 \qquad = 3^{2} + 3^{2}$$

$$= (18)$$

$$(0-E)^{2} \rightarrow tre errors$$

1 Ch

100 Ch

So Ch

Emar = (0-E) Emar = (0-E) E Chi-sq statistic X

Distribution of Z test.

frequency MM

Coin is fair

Ho Ha
Chi-sq

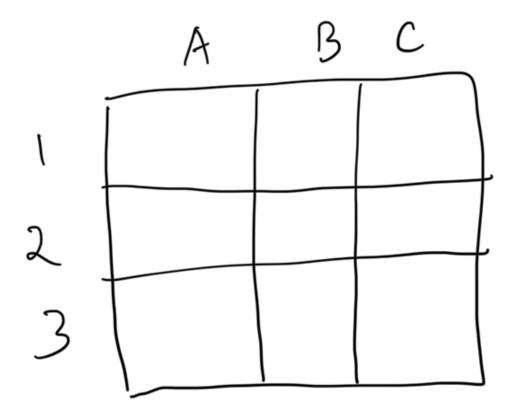
Test of Independence.

Q: is gender related to online is offline behaviour

origoping absenced 206 249 online 1 mil offline 484 115 66./. of 733 = (206-249) 249 ma relation Hw gender and shopping

Ho.

Ha: there to a relation



/ B 3-1=2

 $\mathcal{C}$ 

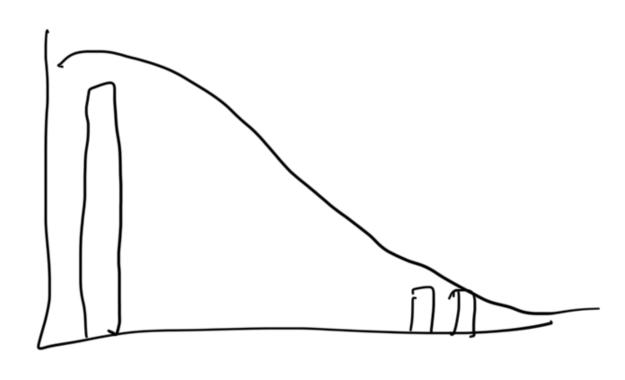
Obsumed 70 80 50 200 200 60 60 200

GOF: for a categorical var
if obs and expected match a not.

y + Marine Marin

\_ .

og e



Chi-