molared Conditional probability biase 7 h, t? h=70% the chance of an event $P(h) = \frac{1}{2} = 0.5$ to occur Given that some privo P(t) = 1/2 = 05 Event already happenes

When some partial information regarding an experiment is given, Conditional prob Comes lis picture SS= {(1,1)(1,2)--(2,2) - - $P = \frac{1}{36}$ (2 dice volled) (3,1),(3,2)Criven that 18t is a 3, What's good that (Sun is 8) (4,1), (4,2)(5,1) (5,2)New 85 $= \left\{ (3,1)(3,2)(3,3)(3,4)(3,1),(3,6) \right\}$ event E

= 8 as Sum. = E = 1 Reduced Sauple Space = SS'

Jours I given information P(Ff) = prob. & Egiven F = conditional prob.

$$P(R|L^{c}) = \frac{P(RL^{c})}{P(L^{c})}$$

$$= \frac{P(R)}{1 - P(L)} = \frac{04}{0.6}$$

$$= \frac{2/8}{1}$$

$$P(AB) P(RC) = \frac{1}{2}$$

$$= \frac{1}{2}$$

$$= \frac{1}{2}$$

$$P(ANB) = P(A)P(B) \Rightarrow provolute = P(AB)$$

$$P(AUB) = P(A) + P(B) \Rightarrow sum.$$

(S) Coin flipped twice find conditional prob. that both land on heads given a) (St land on Heads and b) affect one lands on heads. $P(AB) = P(AB) = P(h,h) = \frac{Y = I}{P(B)}$ $P(AB) = P(AB) = P(AB) = \frac{Y = I}{P(AB)}$ Soli A = both heals (h,t) B = 18t Head (h,t) C = allest 1 Keal b) P(A|C) = P(AC) $= P(h,h) = \frac{1/4}{3/4}$ (h,h) (h,t)(t,h),(h,h)

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