2 a) 2 fair coirs 8 coins total. 3 - ) 4 chance of feir coin. b) There is a 2 chance the coin comes upheads. C) P(FIR) - fair and TTH - P POUTEN- unfair tails favered & TTH P(UHIR) unfor heads favored & TTH P(F)-fair die chosen P(Ut) - Unfair fails formed alie chosen P(UH) - unfair heads farmed die chosen P(R) - roll was TTH P(R) = (P(RIF) · P(F)+P(RIUT) · P(UT) + P(RIUH) · P(UH) =(.28.,25)+(.140629.,375)+(.046875.,375) = 1328125 P(FIR) = P(RIF) · P(R) = 25 · . 1328125 = . 471 The probability that the coin was fair given the Plips TTH d) P(+1) - probability of heads PCF) - probability of feir PCHD = = P(HIF)=== Since P(H) and P(H)F) are equal, the events are independent