Conditional Propositioning tops budy tourisele Condi Condy Doesn't love andy love lode 2 elig 5 5/14 4+3=7/4
Sode 21/14 593/14 P(1c and 5) = = 0.14 contingency table P(be and NS) = 14 = 0.29 P(be (Learly)) = 5 = 0.36 P(be Ne and LS) = 14 = 14 only LS P(NC ad LS) = 3 = 0.21. we can also determine the probability that someone loves Soda, regadlers of how they feel about condy 2+5= 1/4 that knowing that the next person we next inlike tone Goden. What is the probability that he next pures also loves cardy? In other words, what in the Probability that Someone laws candy and sools grien that we sools P(Leonales bover soda) = This is called the conditioned Probability P(1c ad LS) = 2 = 0.14 Sulfount P(Lead LS/LS) = 2 = 0.29 In this can, knowing that they would love carrily the probability that they would love carrily Now, we have hot some downot love country and loves sool.
Probability hat some downot love country and loves sool P(NeadLS/18) = 5 = 5 = 0.71 15 Ty Probability that we got be low we got the come No need divide with the total population. (3) P(NC and US) 2+5 P(LS)

P(NC and LS) ANC and LS LS) P(LS) Conditional Probability in the Probability that come thing will happen a scaled by isloctore Knowledge we already have about the event. translation had p(NCALS) = $\frac{P(NCALS)}{P(LS)} = 0.7$ the dark point of the property of the point of the po P(NC & LS/NC) = P(NC & LS) = 0.71

P(NC & LS/NC) = P(NC & LS) = 0.63

P(NC & LS/NC) = P(NC) P(NC8 LS | LS) XP(LS) = P(NC8 LS) XP(LS) P(NCBLS/NC) P(NC) = P(NCBLS) x Ple P(NC\$ LS | LS) XP(LS) = P(NC\$ LS | NC) XP(NC) P(NC 9LS|LS) = P(NC & LS|NC) AP(NC) P(NCPLS/NC) = P(NCBLS/LS) × P(LS) Detrotta delived Bayes Theorem A = downer book condry (NC)
B = Losey soda (LS) P(AGB/A) × P(A) P(A \$ 13 | B) F P(ASBB)×P(B) P(ARB/A) = P(A)