Independent Events Say events A, Bare independent if P(AnB) = P(A)P(B). Otherwise, say A, B are dependent. Define A as the event red die shows value = 3 B as the event green die Showsvalue 5 red outcomes are in A "green" outcomes are in B P(AnB) = 4/36 = 19 P(A)= 36= 3 P(B)= 56= 6 $P(A \wedge B) = \frac{1}{4} = \frac{2}{18} = \frac{2}{3}, \frac{1}{4} = P(A)P(B).$ So events A and B are independent. event maximum of the two lice is 5 or greater.

Event A is that red lie > 3. P(A)= 36= = P(C)= 36= 5 P(Anc) = 16 = 4 = 127 So P(Anc) + P(A)P(C) $P(A)P(C) = \frac{2}{3} \cdot \frac{5}{9} = \frac{10}{27}$ So A, C not independent. Instead A.C dependendent