Example: Let X denote the number of girls born in 4 independent births. Notice X takes on 5 possible values: 0,1,2,3,4 P(X=0)= 16 1 interne → X=0 16 passible outcomes. 4 outcomes + X=1 P(X=1) = 1/4 6 outcomes - X=2 P(X=2) = 6/16 4 outcomes - X=3 V(X=3)= 4/16 1 outcomes -> X=4 P(X=4) = 1/16 mass pX (x) of the random variable X looks like: P(X=x)=0 forall often leave off the Ovalues altogether. CDF F<sub>X</sub>(x) of random variable X 11/16 total amount of jumps is ( because the mass must sum to l. Think: CDF approaches 0 as x -> - 00 i.e. to the left of approaches 1 as x -> + 00 i.e. to the right of has step sizes of the same heights as the mass.

