Example of mass and COF. Let X be the number of chocolate chip cookies eaten by 3 children: There are 12 cookies total, 5 are chocolate, 7 are not chocolate, each child gets 1 cookie. The cookies are chosen without replacement.

mass of 
$$X$$
:  $P(X=0) = \rho_X(0) = \frac{2}{44} = .159...$   
 $P(X=1) = \rho_X(1) = \frac{21}{44} = .477...$   
 $P(X=2) = \rho_X(2) = \frac{2}{12} = .318...$   
 $P(X=3) = \rho_X(3) = \frac{1}{22} = .045...$ 

