

(c) $E(F) = \sum f P_F(F)$

$$\text{Var}(F) = \sum f^2 P_F(F) - (E(F))^2$$

$$E(G) = \sum g P_G(G)$$

$$\text{Var}(G) = \sum g^2 P_G(G) - (E(G))^2$$