

F

PMF and CDF

F



$S = \{B, B, B, B, B, B, B, B, R, R, R, R, R, R, R, R, R, R, B, B, B, B, B, B, B, B, B, B, B\}$
 $|T| = 4$

$$P(X = x) = \mathbb{P}(T, x) = \frac{\binom{8}{x} \times \binom{22}{4-x}}{\binom{30}{4}}, \quad x = 0, 1, 2, 3, 4$$

$$P(X = 0) = \mathbb{P}(T, 0) = \frac{\binom{22}{4}}{\binom{30}{4}}$$

$$P(X = 1) = \mathbb{P}(T, 1) = \frac{\binom{8}{1} \times \binom{22}{3}}{\binom{30}{4}}$$