



M-total tickets

N-purchased

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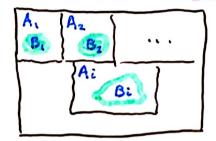
N-purchased

N-no.of draws

P(win)=1-P(lose)

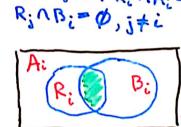
N-no.of draws

P(lose) =
$$\frac{M-N}{M} \times \frac{M-l-N}{M-l-l} \times ... \times \frac{M-(n-l)-N}{M-(n-l)} = \frac{(M-N)}{N}$$



(Bi) = arg max
$$P(win | (Bi)_i \ \ \ \ \ \ \ \ \)$$
 = (Bi)

win =
$$U(R \cap B_i) = U((UR_i) \cap B_i) = U(U(R_i \cap B_i)) = U(R_i \cap B_i) = U(R_i \cap B$$



Induction style

$$P(win) = |-P(R_i \cap R_i = \phi) = |-P(R_i \cap A_i \setminus B_i)$$

