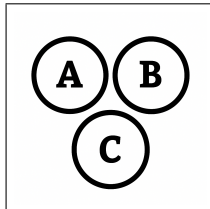


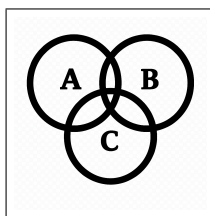
K

Probability

K



$$S = \{B, B, R, R, R\}$$



$$P(S, BB) = P(S, B) \times P(S, B) = 0.40 \times 0.25 = 0.10$$

$$P(S, BR) = P(S, B) \times P(S, R) = 0.40 \times 0.75 = 0.30$$

$$P(S, RB) = P(S, R) \times P(S, B) = 0.60 \times 0.50 = 0.30$$

$$P(S, RR) = P(S, R) \times P(S, R) = 0.60 \times 0.50 = 0.30$$

$$P(S, BB) = P(S, B) \times P(S, B) = 0.40 \times 0.40 = 0.16$$

$$P(S, BR) = P(S, B) \times P(S, R) = 0.40 \times 0.60 = 0.24$$

$$P(S, RB) = P(S, R) \times P(S, B) = 0.60 \times 0.40 = 0.24$$

$$P(S, RR) = P(S, R) \times P(S, R) = 0.60 \times 0.60 = 0.36$$



$$S = \{1, 1, 2, 2, 2, 3, 3\}$$

$$P(P(S, 11)) = ?$$

K

Probability

K



$$S = \{1, 1, 2, 2, 2, 3, 3\}$$

$$P(\textcircled{\#}(S, 11)) = ?$$

$$\textcircled{\#}(S, 11) = \binom{2}{2} = 1$$

$$\textcircled{\#}(S, 2) = \binom{7}{2} = \frac{7 \cdot 6}{2} = 21$$

$$P(\textcircled{\#}(S, 11)) = \frac{\textcircled{\#}(S, 11)}{\textcircled{\#}(S, 2)} = \frac{1}{21} \approx 0.05$$