

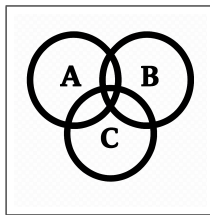
F

Probability

F



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



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

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

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

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

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

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

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

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



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

$$P(P(S, WR)) + P(P(S, RW)) = ?$$

F

Probability

F



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

$$P(S, WW) = P(S, W) \times P(S, W) = 3/5 \times 3/5 = 9/25$$

$$P(S, WR) = P(S, W) \times P(S, R) = 3/5 \times 2/5 = 6/25$$

$$P(S, RW) = P(S, R) \times P(S, W) = 2/5 \times 3/5 = 6/25$$

$$P(S, RR) = P(S, R) \times P(S, R) = 2/5 \times 2/5 = 4/25$$

$$P(P(S, WR)) + P(P(S, RW)) = 12/25 \approx 0.48$$