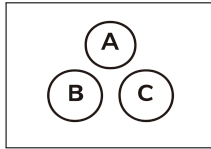
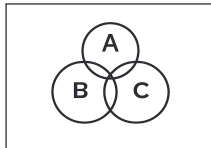


8

Discrete Distribution Probability



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



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

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

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

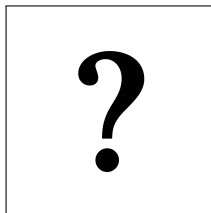
$$\mathbb{P}(S, RR) = \mathbb{P}(S, R) \times \mathbb{P}(S, R) = 0.60 \times 0.50 = 0.30$$

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

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

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

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



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

$$T = \{W, W, W, W, W, W, W, L, L, L\}$$

$$P(\mathbb{P}(S, W)) \times P(\mathbb{P}(T, W)) = ?$$

8

Discrete Distribution Probability



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

$$T = \{W, W, W, W, W, W, W, L, L, L\}$$

$$P(\textcircled{=}(S, W)) \times P(\textcircled{=}(T, W)) = 0.60 \times 0.70 = 0.42$$