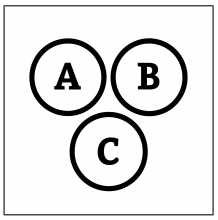
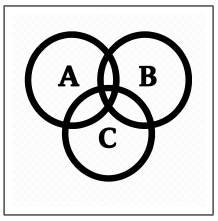
Probability



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

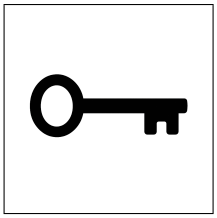


$$\text{⊜}(S, BB) = \text{⊜}(S, B) \times \text{⊜}(S, B) = 0.40 \times 0.25 = 0.10$$
$$\text{⊜}(S, BR) = \text{⊜}(S, B) \times \text{⊜}(S, R) = 0.40 \times 0.75 = 0.30$$
$$\text{⊜}(S, RB) = \text{⊜}(S, R) \times \text{⊜}(S, B) = 0.60 \times 0.50 = 0.30$$
$$\text{⊜}(S, RR) = \text{⊜}(S, R) \times \text{⊜}(S, R) = 0.60 \times 0.50 = 0.30$$

$$\text{⊜}(S, BB) = \text{⊜}(S, B) \times \text{⊜}(S, B) = 0.40 \times 0.40 = 0.16$$
$$\text{⊜}(S, BR) = \text{⊜}(S, B) \times \text{⊜}(S, R) = 0.40 \times 0.60 = 0.24$$
$$\text{⊜}(S, RB) = \text{⊜}(S, R) \times \text{⊜}(S, B) = 0.60 \times 0.40 = 0.24$$
$$\text{⊜}(S, RR) = \text{⊜}(S, R) \times \text{⊜}(S, R) = 0.60 \times 0.60 = 0.36$$

$S = \{W, W, W, W, W, W, L, L, L, L\}$
$T = \{W, W, W, W, W, W, W, L, L, L\}$
$P(\text{⊜}(S, W)) \times P(\text{⊜}(T, W)) = ?$

Probability



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