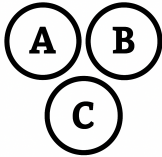


# H

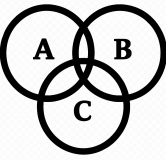
## Classic Probability

# H



$$S = \{1, 2, 3, 4, 5, 6\}$$

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



$$P(E) = |E|/|S| = 3/6 = 0.5$$

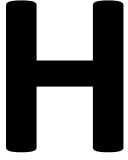
?

$$S = \{(i, j) \mid i \in \{1, 2, 3, 4, 5, 6\}, j \in \{1, 2, 3, 4, 5, 6\}\}$$

$$|S| = 36$$

$$P(E) = \frac{|E|}{|S|} = \frac{1}{3}$$

$$|E| = ?$$



## Classic Probability



$$S = \{(i, j) \mid i \in \{1, 2, 3, 4, 5, 6\}, j \in \{1, 2, 3, 4, 5, 6\}\}$$

$$|S| = 36$$

$$P(E) = \frac{|E|}{|S|} = \frac{1}{3}$$

$$|E| = |S| \times P(E) = 36 \times \frac{1}{3} = 12$$