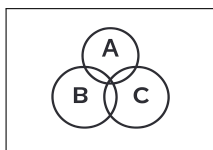
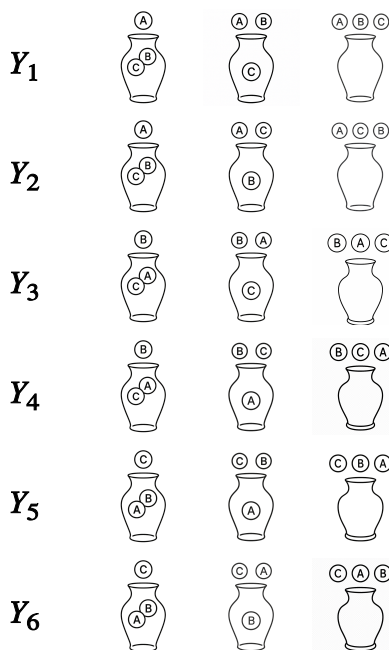
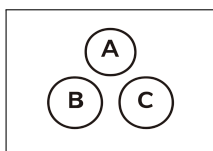


3

Discrete Distribution Counting

H



$$N = \{A, B, C\}$$

$$Y = \textcircled{\equiv}(N, 3)$$

$$|Y| = |N| \times (|N|-1) \times (|N|-2)$$

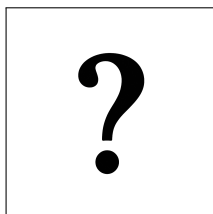
$$|Y| = 3 \times 2 \times 1 = 6$$

$$M = \{T, H\}$$

$$X = \textcircled{\equiv}(M, 3)$$

$$|X| = |M| \times |M| \times |M|$$

$$|X| = 2 \times 2 \times 2 = 8$$



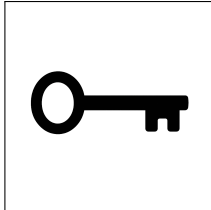
$$S = \{0, 1, 2, 3, \dots, 24\}$$

$$|\textcircled{\equiv}(S, 4)| = ?$$

3

Discrete Distribution Counting

H



$$S = \{0, 1, 2, 3, \dots, 24\}$$

$$|\mathbb{P}(S, 4)| = |S| \times (|S| - 1) \times (|S| - 2) \times (|S| - 3)$$

$$|\mathbb{P}(S, 4)| = 24 \times 23 \times 22 \times 21 = 255,024$$