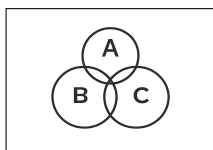
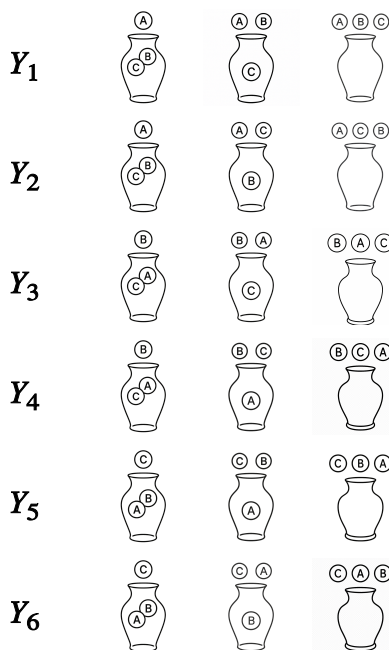
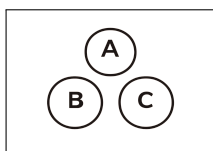


3

Discrete Distribution Counting

J



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

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

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

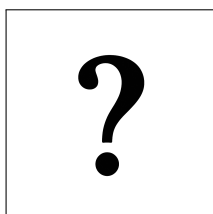
$$|Y| = 3 \times 2 \times 1 = 6$$

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

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

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

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



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

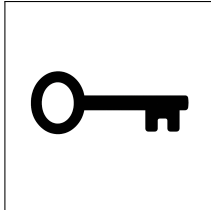
$$T = \{1, 2\}$$

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

3

Discrete Distribution
Counting

J



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

$$T = \{1,2\}$$

$$| \bigoplus_{i=1}^4 (S,4) | \times | \bigoplus_{j=1}^2 (T,4) | = |S| \times (|S|-1) \times (|S|-2) \times (|S|-3) \times \\ |T| \times |T| \times |T| \times |T| = 24 \times 16 = 384$$