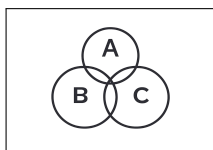
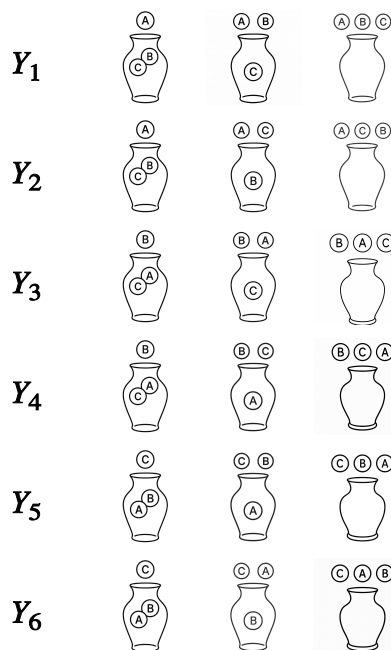
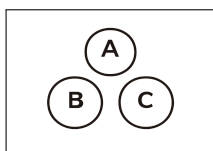


3

Discrete Distribution Counting

F



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

$$Y = \text{⊞}(N, 3)$$

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

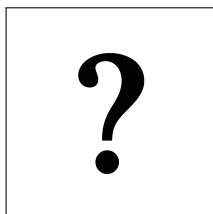
$$|Y| = 3 \times 2 \times 1 = 6$$

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

$$X = \text{⊞}(M, 3)$$

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

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



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

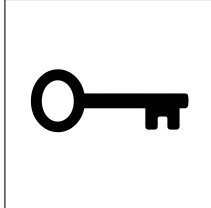
$$T = \{1, 2, 3, \dots, 12\}$$

$$|\text{⊞}(S, 1)| \times |\text{⊞}(T, 1)| = ?$$

3

Discrete Distribution Counting

F



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

$T = \{1,2,3...12\}$

$| \oplus (S,1) | \times | \oplus (T,1) | = |S| \times |T| = 4 \times 12 = 48$