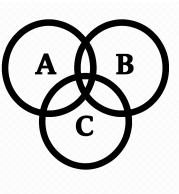
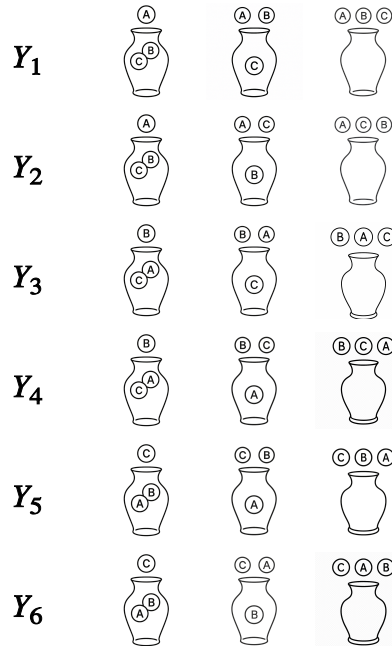
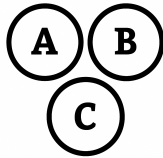


B

Counting

B



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

$$Y = \text{⊞}(N, 3)$$

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

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

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

$$X = \text{⊞}(M, 3)$$

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

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



$$S = \{0, 1, 2, 3, 4, 5, 6, 7\}$$

$$|\text{⊞}(S, 3)| = ?$$

B

Counting

B



$S = \{0, 1, 2, 3, 4, 5, 6, 7\}$

$|\mathfrak{P}(S, 3)| = ?$

$|\mathfrak{P}(S, 3)| = |S| \times (|S| - 1) \times (|S| - 2) = 8 \times 7 \times 6 = 336$