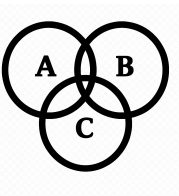
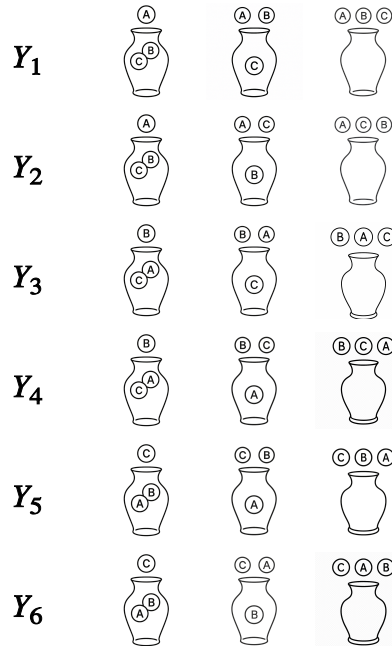
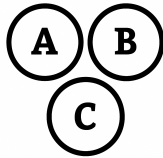


D

Counting

D



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

$$Y = \text{⊞}(N, 3)$$

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

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

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

$$X = \text{⊞}(M, 3)$$

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

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



$$S = \{1, 2, 3, \dots, 10\}$$

$$|\text{⊞}(S, 2)| = ?$$

D

Counting

D



$$S = \{1, 2, 3, \dots, 10\}$$

$$|\mathcal{P}(S, 2)| = |S| \times (|S| - 1) = 10 \times 9 = 90$$