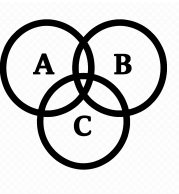
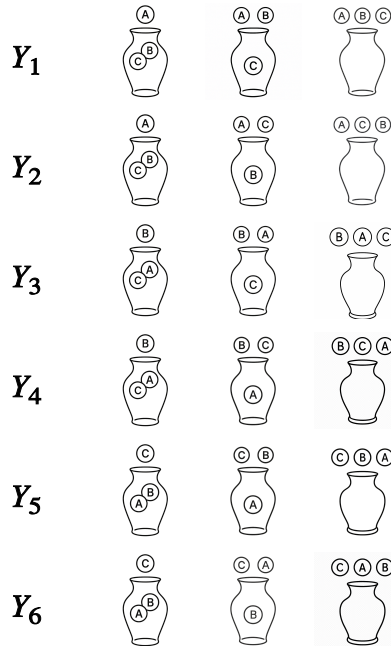
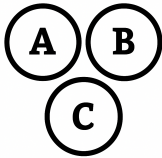


# H

## Counting

# H



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

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

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

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

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

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

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

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

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

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

?

# H

## Counting

# H



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

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

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