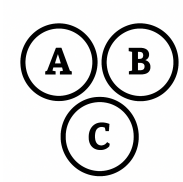
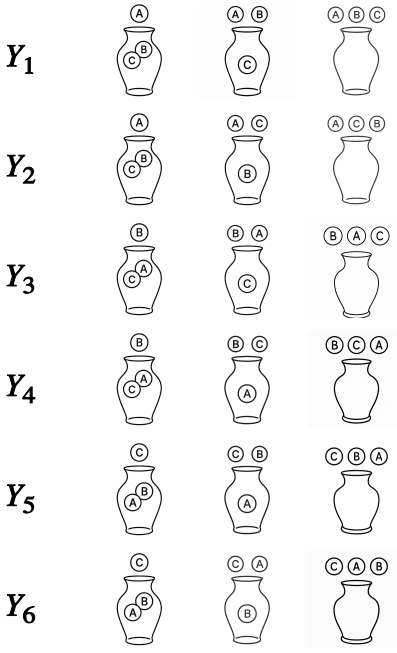
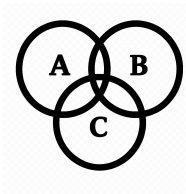
P Counting P







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

$Y = \overrightarrow{P}(N,3)$

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

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

$M = \{T, H\}$

$X = \overline{P}(M,3)$

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

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

?

$S = \{A,B,C, \ldots Z\}$

$|\overline{P}(S,5)| - |\overrightarrow{P}(S,5)| = ?$

P Counting P

S = {A,B,C, ... Z}

| ⊜ (S,5)| - | ⊜ (S,5)|=(|S| x |S| x |S| x |S| x |S|) - (|S| x (|S|-1) x (|S|-2) x (|S|-3) x (|S|-4)) = (26 x 26 x 26 x 26 x 26) - (26 x 25 x 24 x 23 x 22) = 98,176