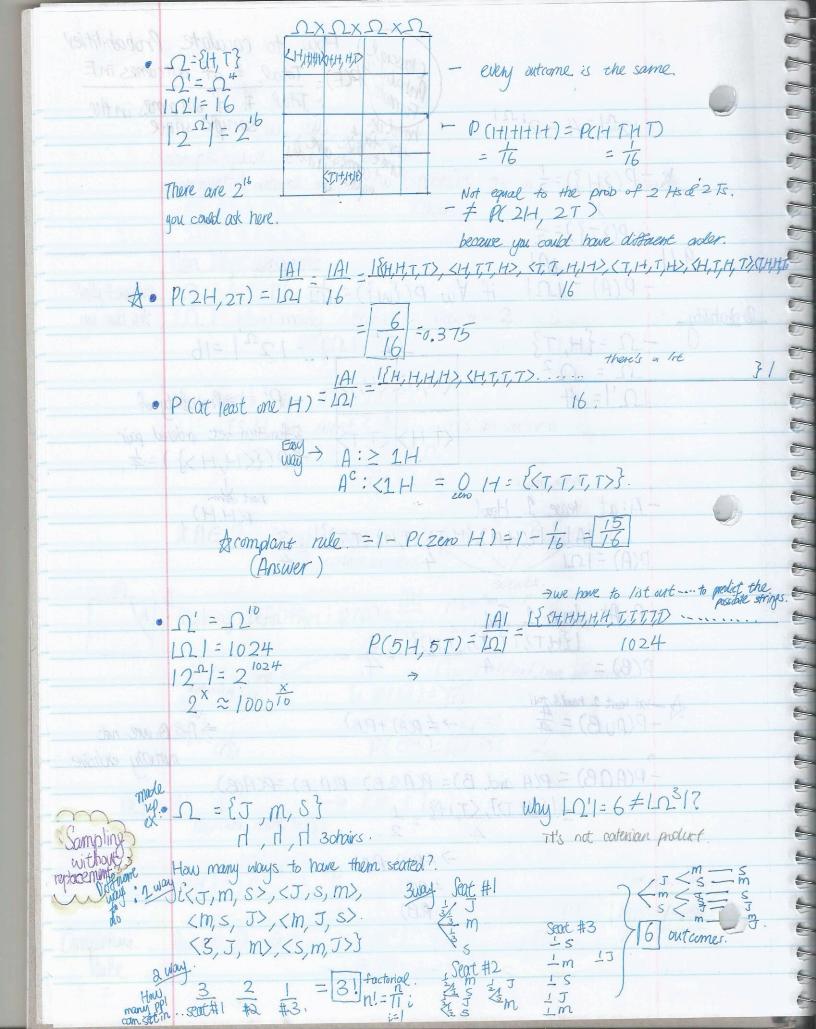
Polability
$$-\rho(A) = |\Omega| \quad \text{if } \forall w \ \rho(\mathbb{E}w) = |\Omega| \quad \text{in}$$

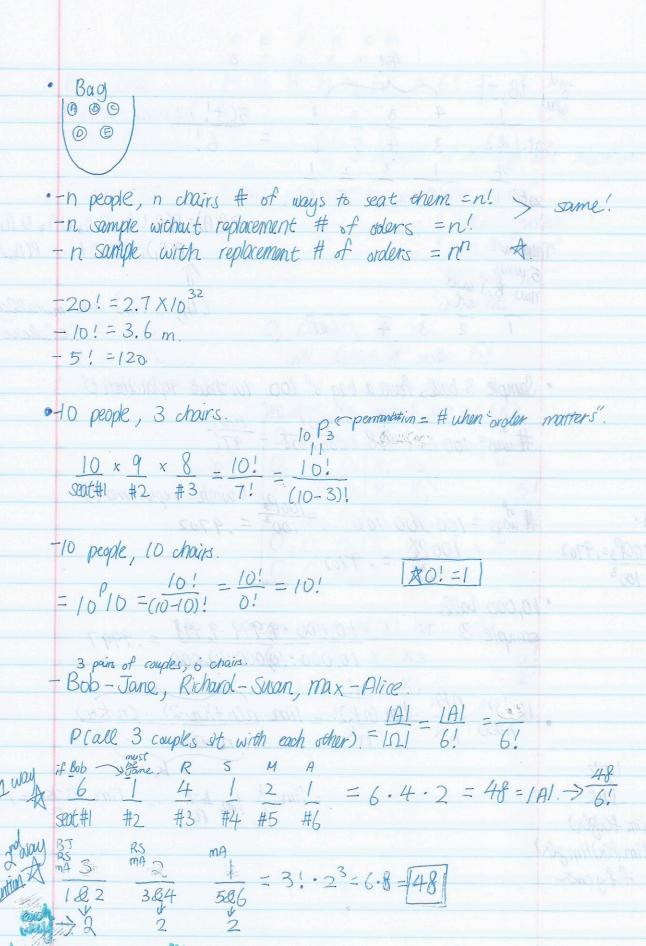
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has 2 ways to be sented!!

{B,J} →P(A)=P(A, UA2 U A3 UA4 U A5) $=P(A_1)+P(A_2)+...P(A_5)=5P(A_1)$ There are 5 ways Now B, I sould EA, Ab3 ours mutalley 1 2 3 4 5d6 • Sample 3 balls from a bag of 100 (without replacement) # ways = 100.99.98 = 100! = 100! = 100! (with replacement) # ways = $100 \cdot 100 \cdot 100$ = $100 \cdot 100$ = 100P3=,9702 · 10,000 balls 10,000 . 9,999 . 9,998 = . 9997 sample 3 10,000:10,000:10,000 $1 = \lim_{h \to \infty} \frac{nP_K}{n^K} = \lim_{h \to \infty} \frac{n!}{n^K} = \lim_{h \to \infty} \frac{n(n+1)(n-2) \cdot \dots \cdot (n+1)}{n^K}$ = $\lim_{k \to \infty} \frac{k}{n} \lim_{k \to \infty} \frac{k-1}{n} = \lim_{k \to \infty} \frac{n-k+1}{n} = 1$ little (im. fcx)o(x) =limf(x)limp(x) if fig coulin

BJRSM BJRSMA. · Bob - Jane hhhhhh = 6! Richard-Susan Max - Alice 6! - Principle of dividing out invarious. 6 chairs case. > Some permutations are 'the same" ind is tingustable"
non_cunque" 'non-distict" invarious" • 5 flowers 3 orchids (0) 0, 02 03 X, X2 all distict # order 5! + 2 chrysanthume (X) - care about the orchids but not (X) 0, 02 03 X, X2 could 0, 03 02 X, X2 O_2 O_1 O_3 X_1 X_2 0,030, X, X, 030, 02 X, X2 O3 O2 O1 X, X, -care about the (x) not (0). $0_1 \ 0_2 \ 0_3 \ X_1 \ X_2 \ X_2 \ X_1 = \frac{5!}{2!}$