Probability Renew
1-7) Permutation or Combination?
$\downarrow$ patterns $\uparrow$ groups
$1) \frac{\text { Arrange all objects }}{n!}$

$$
{ }_{n} \mathrm{C}_{r}
$$

2) Small group $\frac{n P_{r}=9^{p}}{\text { S }}$
3) Specific positions or repeat objects
Draw blanks
4) $\frac{\text { Look alike }}{\frac{\text { total! }}{\text { ali! }!\cdot l^{\prime}!}}$

$$
\begin{gathered}
6 \cdot 5 \cdot \frac{3}{B 1} \frac{2-1-3}{B 1}-\frac{1}{B 1}-1320 \\
=432
\end{gathered}
$$



$$
\text { Expected Value }=(\text { Prob. }) \text { (Gain/Loss) }
$$

