1) unusual

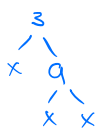
subsets: only 1

$5! = 120 \rightarrow 120$ unique

2) $\binom{13}{1}\binom{12}{1}\binom{44}{1} = 6864$ hands

3) $\binom{21}{18} + \binom{20}{15}$

$6 - 1 + 16 = 21$

4) 

$2 \cdot 5 \cdot 42 = 420$

5) $\frac{10!}{6!\,4!} + \frac{10!}{3!\,7!} = 210 + 120 \downarrow 330$