Subsets of size k and of size n-k

$$\binom{n}{k} = \binom{n}{n-k} \quad \text{and} \quad {}_{n}C_{k} = {}_{n}C_{n-k}$$

The number of subsets of size k of a set with n objects is the same as the number of subsets of size n-k. The number of combinations of n objects taken k at a time is the same as the number of combinations of n objects taken n-k at a time.