Concepts and Formulas

Easy to understand difference:

Permutation

- Permutation is the arrangement of items in which **order matters**
- Number of ways of **selection and arrangement of items** in which Order Matters

$$^{n}P_{r} = \frac{n!}{(n-r)!}$$

Combination

- Combination is the selection of items in which **order does not matters** .
- Number of ways of **selection of items** in which Order does not Matters

$$^{n}C_{r} = \frac{n!}{r!\,(n-r)!}$$

For other important formulas see different case formulas and concepts.