

Permutations : Ordered Subsets

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Permutations

- ▶ Suppose we have a set of **n** items.
- ▶ From that set, we create a subset of **k** items.
- ▶ The **order** in which items are selected is recorded. (The ordering of selected items is very important.)
- ▶ The total number of **ordered subsets** of **k** items chosen from a set of **n** items is

$$\frac{n!}{n - k!}$$