

*In a Permutation or the Fundamental Counting Principle, order matters.*

*A permutation does not allow repetition, the FCP does*

**Three friends buy an all-day pass to ride a two-seated bike, if only two of them can ride at a time, how many possible seating arrangements are there?**

**There are 5 runners in a race. How many different ways can the racers finish?**

**How many distinguishable ways could we arrange the letters in the word “LOOK”?**

**How many distinguishable arrangements of letter are there in the word “cheese”?**