**Combinations: Order doesn’t matter**

**Ice Cream Flavors**: You have 15 different ice cream flavors. If you want to choose 3 flavors to combine into a triple scoop cone, how many ways can you choose the flavors if the order does not matter?

**Lottery Selection**: A lottery involves picking 6 numbers from a set of 49 numbers. How many different ways can the 6 numbers be selected?

**Challenge: Committee Assignment**

**Hint:** What are the ways that the committee could be assigned?

From a group of 10 students and 7 faculty, a committee of 5 people is to be chosen. How many ways can the committee be formed if it must contain at least 3 faculty?