HW 1

Group 1 **Grade:**

Given number $\{0, 1, 2, 3, 4, 5\}$, how many odd numbers can be formed with 5 unrepeated digits?

Group 2 **Grade:**

Six couples sitting in a table. How many ways can they be seated such that all couples sits together?

Group 3 **Grade:**

We want to order 4 green balls, 3 red balls, and 2 blue balls. The green balls cannot be next to each other. How many ways can we do that?

Group 4 **Grade:**

We want to place 10 balls in 7 boxes. How many ways can we do that?

Group 5 **Grade:**

There are 8 books on a shelf, of 2 are paperbacks and 6 are hardbacks. How many possible selections of 4 books from this shelf Include at least one paperback?